



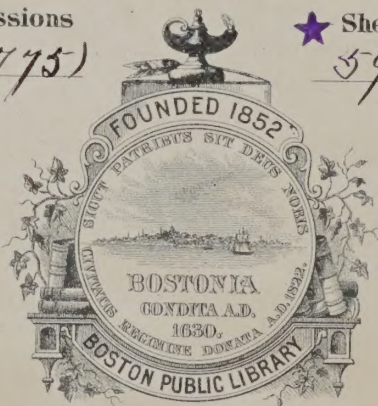


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Sept. 3, 1891

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*Please catalogue*

UNITED STATES OF AMERICA:  
WAR DEPARTMENT.

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CHARTS SHOWING THE ISOBARS, ISOTHERMS, AND WINDS

IN THE

UNITED STATES FOR EACH MONTH

FROM

JANUARY, 1871, TO DECEMBER, 1873.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF WAR.

WASHINGTON CITY:  
SIGNAL OFFICE,  
1891.



## INTRODUCTION.

The publication of charts showing monthly isobars, isotherms, and prevailing wind directions for the United States has been regularly made by the Signal Corps from the latter part of the year 1873 until the present time. Many demands have been made upon this office for information concerning the temperature, precipitation, and wind directions for the different months during the years 1871, 1872, and 1873, prior to the regular publication of monthly charts. In view of the fact, however, that this office did not receive reports from voluntary observers until 1874, it was impossible to furnish the data required or to publish charts requested. Some time since Prof. S. P. Langley, of the Smithsonian Institution, kindly placed at the disposal of the Chief Signal Officer of the Army all the original and complete meteorological data within the control of the institution, of which Professor Langley is Secretary. The meteorological information thus furnished supplemented very largely the data already accumulated from other sources, and enabled the Chief Signal Officer some time since to publish a series of monthly rain charts of the United States for the years 1871, 1872, and 1873. It has only lately been possible to arrange the data bearing on the atmospheric pressure, the mean temperatures, and prevailing wind directions for the months in question.

The collation of the data has been made under the direction of Mr. A. J. Henry, chief clerk of the Records Division of this office, who has exhausted all available sources, whether pertaining to the observations made by the officers of the medical department, under the direction of the Surgeon General of the Army, to reports by voluntary observers of the Smithsonian Institution, by officers of state and other institutions, or those made by regular observers of the Signal Service at stations occupied at different times during the period under consideration.

The isobars and isotherms on the charts herewith published have been drawn by Captain Charles E. Kilbourne, Signal Corps, an officer whose long experience in meteorological work well qualifies for this difficult task.

It has not always been possible to reconcile conflicting data, so that the weight given to different observations naturally depends on the personal equation of the person discussing the data under consideration. It is not claimed for these charts that they are as exact or as worthy of entire confidence as are the charts published in late years; but it is believed that they represent, with a fair degree of approximation, the atmospheric pressure, mean temperature, and prevailing winds of the United States for the months to which they pertain.

In cases where stations are not close enough together to enable the isobars and isotherms to be drawn with accuracy, and when the elevations of stations are not considered reliable, the data are printed in figures but are not considered in drawing the lines.

Only a small number of these charts has been reproduced, as the object of their issue is to furnish observers in charge of the Signal Service stations throughout the country with charts and data somewhat comparable with those of late date, and which may be available for examination and study in connection with the current work devolving upon observers in the discharge of their official duties.

A. W. GREELY

*Chief Signal Officer.*

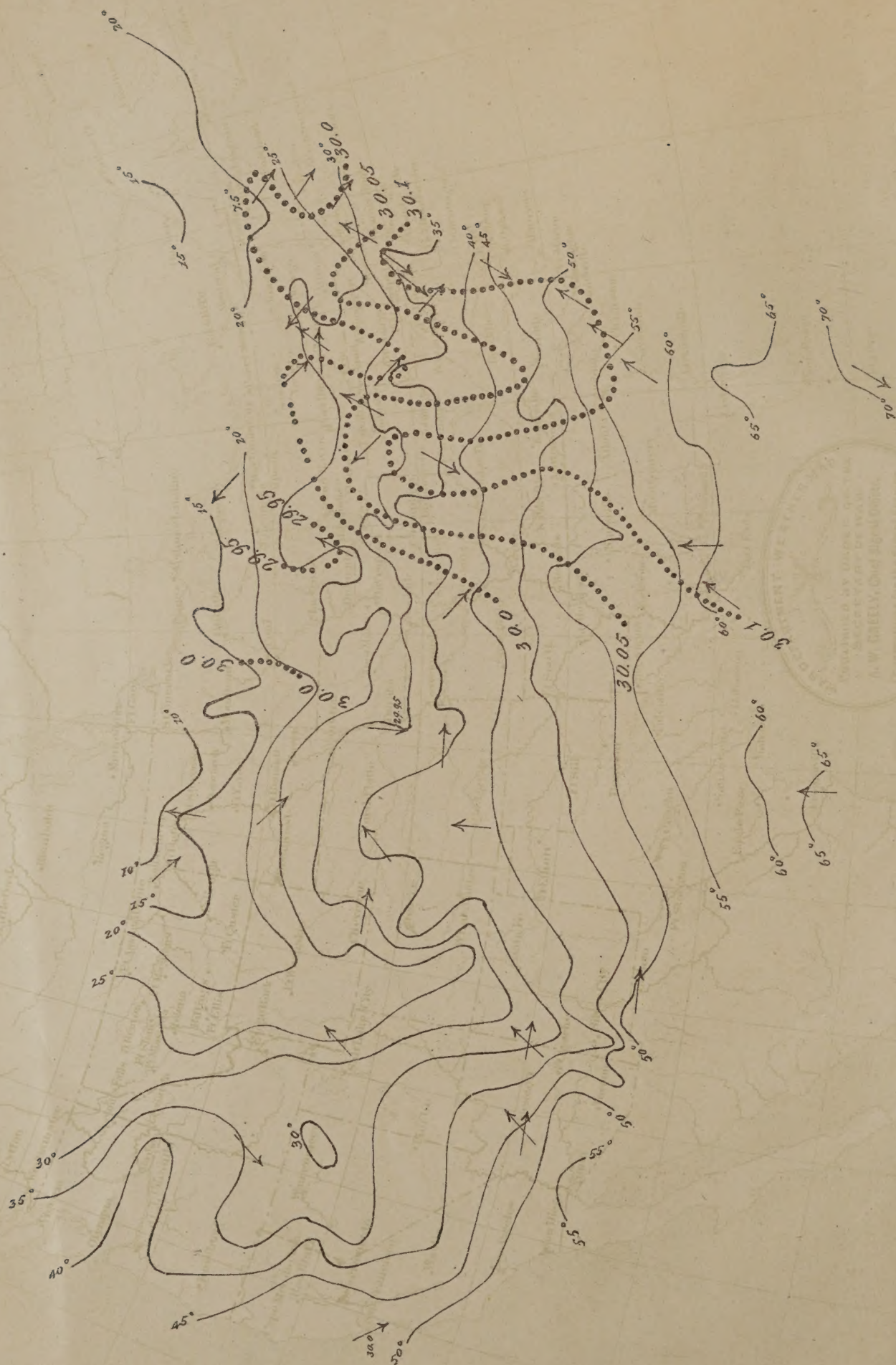
WASHINGTON, D. C., *June*, 1891.



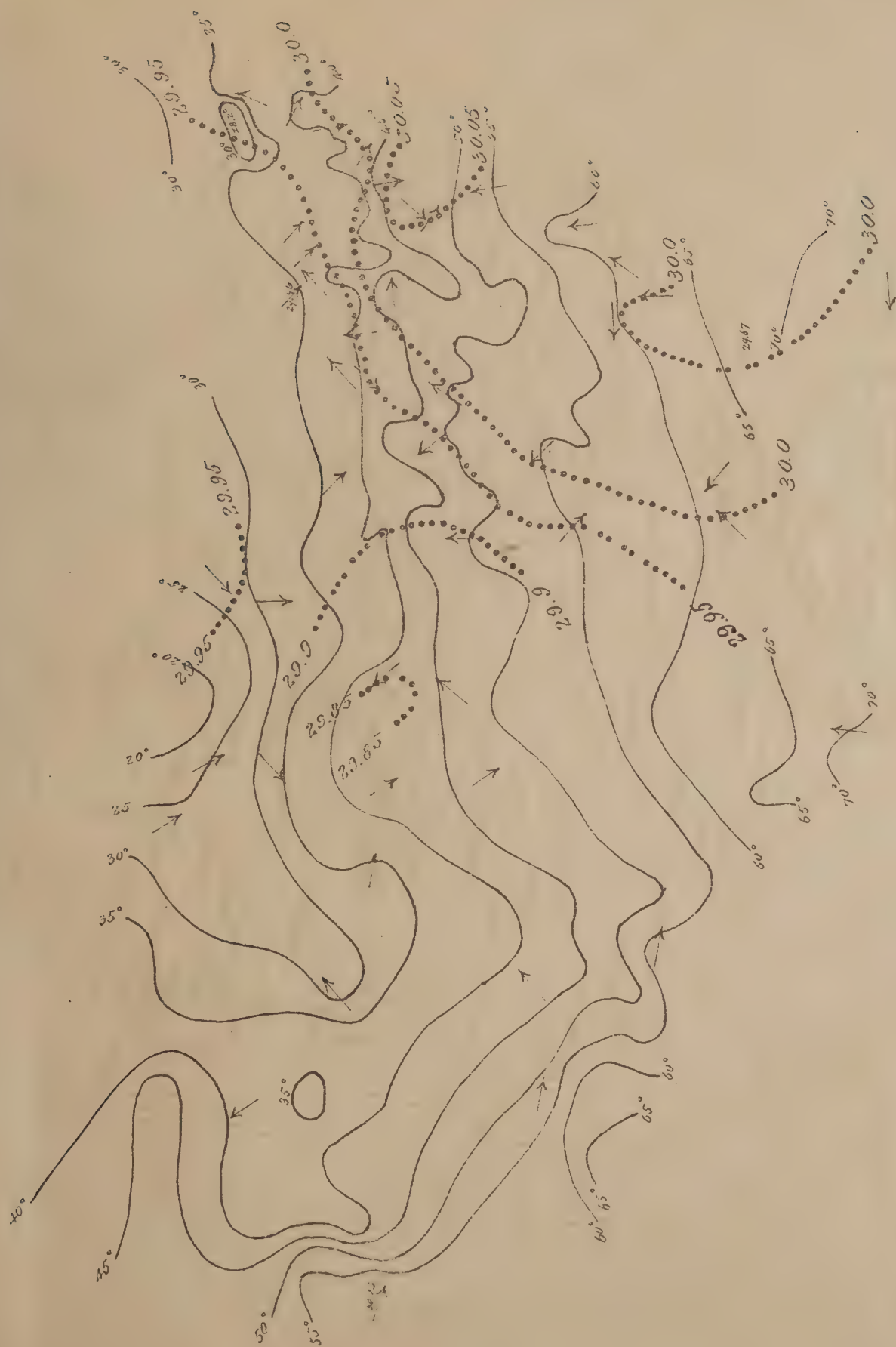




THE VINTAGE









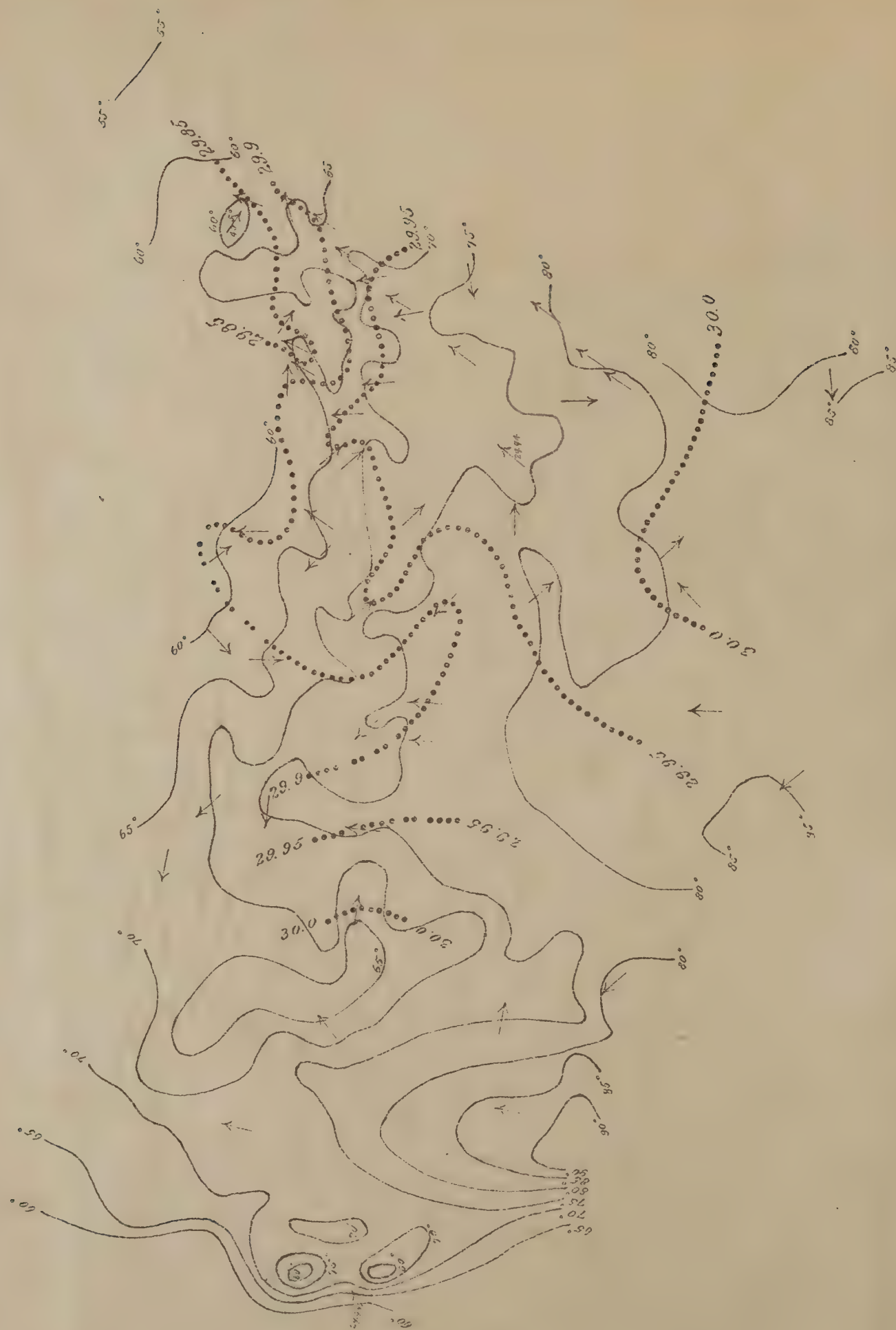




A hand-drawn contour map on a piece of paper, showing a coastal area with various elevation lines and numerical values. The map is oriented with the coastline on the left and the interior on the right. The coastline is marked with several points and values: 45°, 50°, 55°, 60°, 65°, 70°, 75°, 80°, 85°, 90°, 95°, 100°. The interior of the map features several contour lines, some of which are labeled with values such as 29.85, 29.9, 29.95, 30.0, 30.05, 30.1, 30.15, 30.2, 30.25, 30.3, 30.35, 30.4, 30.45, 30.5, 30.55, 30.6, 30.65, 30.7, 30.75, 30.8, 30.85, 30.9, 30.95, 31.0, 31.05, 31.1, 31.15, 31.2, 31.25, 31.3, 31.35, 31.4, 31.45, 31.5, 31.55, 31.6, 31.65, 31.7, 31.75, 31.8, 31.85, 31.9, 31.95, 32.0, 32.05, 32.1, 32.15, 32.2, 32.25, 32.3, 32.35, 32.4, 32.45, 32.5, 32.55, 32.6, 32.65, 32.7, 32.75, 32.8, 32.85, 32.9, 32.95, 33.0, 33.05, 33.1, 33.15, 33.2, 33.25, 33.3, 33.35, 33.4, 33.45, 33.5, 33.55, 33.6, 33.65, 33.7, 33.75, 33.8, 33.85, 33.9, 33.95, 34.0, 34.05, 34.1, 34.15, 34.2, 34.25, 34.3, 34.35, 34.4, 34.45, 34.5, 34.55, 34.6, 34.65, 34.7, 34.75, 34.8, 34.85, 34.9, 34.95, 35.0, 35.05, 35.1, 35.15, 35.2, 35.25, 35.3, 35.35, 35.4, 35.45, 35.5, 35.55, 35.6, 35.65, 35.7, 35.75, 35.8, 35.85, 35.9, 35.95, 36.0, 36.05, 36.1, 36.15, 36.2, 36.25, 36.3, 36.35, 36.4, 36.45, 36.5, 36.55, 36.6, 36.65, 36.7, 36.75, 36.8, 36.85, 36.9, 36.95, 37.0, 37.05, 37.1, 37.15, 37.2, 37.25, 37.3, 37.35, 37.4, 37.45, 37.5, 37.55, 37.6, 37.65, 37.7, 37.75, 37.8, 37.85, 37.9, 37.95, 38.0, 38.05, 38.1, 38.15, 38.2, 38.25, 38.3, 38.35, 38.4, 38.45, 38.5, 38.55, 38.6, 38.65, 38.7, 38.75, 38.8, 38.85, 38.9, 38.95, 39.0, 39.05, 39.1, 39.15, 39.2, 39.25, 39.3, 39.35, 39.4, 39.45, 39.5, 39.55, 39.6, 39.65, 39.7, 39.75, 39.8, 39.85, 39.9, 39.95, 40.0, 40.05, 40.1, 40.15, 40.2, 40.25, 40.3, 40.35, 40.4, 40.45, 40.5, 40.55, 40.6, 40.65, 40.7, 40.75, 40.8, 40.85, 40.9, 40.95, 41.0, 41.05, 41.1, 41.15, 41.2, 41.25, 41.3, 41.35, 41.4, 41.45, 41.5, 41.55, 41.6, 41.65, 41.7, 41.75, 41.8, 41.85, 41.9, 41.95, 42.0, 42.05, 42.1, 42.15, 42.2, 42.25, 42.3, 42.35, 42.4, 42.45, 42.5, 42.55, 42.6, 42.65, 42.7, 42.75, 42.8, 42.85, 42.9, 42.95, 43.0, 43.05, 43.1, 43.15, 43.2, 43.25, 43.3, 43.35, 43.4, 43.45, 43.5, 43.55, 43.6, 43.65, 43.7, 43.75, 43.8, 43.85, 43.9, 43.95, 44.0, 44.05, 44.1, 44.15, 44.2, 44.25, 44.3, 44.35, 44.4, 44.45, 44.5, 44.55, 44.6, 44.65, 44.7, 44.75, 44.8, 44.85, 44.9, 44.95, 45.0, 45.05, 45.1, 45.15, 45.2, 45.25, 45.3, 45.35, 45.4, 45.45, 45.5, 45.55, 45.6, 45.65, 45.7, 45.75, 45.8, 45.85, 45.9, 45.95, 46.0, 46.05, 46.1, 46.15, 46.2, 46.25, 46.3, 46.35, 46.4, 46.45, 46.5, 46.55, 46.6, 46.65, 46.7, 46.75, 46.8, 46.85, 46.9, 46.95, 47.0, 47.05, 47.1, 47.15, 47.2, 47.25, 47.3, 47.35, 47.4, 47.45, 47.5, 47.55, 47.6, 47.65, 47.7, 47.75, 47.8, 47.85, 47.9, 47.95, 48.0, 48.05, 48.1, 48.15, 48.2, 48.25, 48.3, 48.35, 48.4, 48.45, 48.5, 48.55, 48.6, 48.65, 48.7, 48.75, 48.8, 48.85, 48.9, 48.95, 49.0, 49.05, 49.1, 49.15, 49.2, 49.25, 49.3, 49.35, 49.4, 49.45, 49.5, 49.55, 49.6, 49.65, 49.7, 49.75, 49.8, 49.85, 49.9, 49.95, 50.0, 50.05, 50.1, 50.15, 50.2, 50.25, 50.3, 50.35, 50.4, 50.45, 50.5, 50.55, 50.6, 50.65, 50.7, 50.75, 50.8, 50.85, 50.9, 50.95, 51.0, 51.05, 51.1, 51.15, 51.2, 51.25, 51.3, 51.35, 51.4, 51.45, 51.5, 51.55, 51.6, 51.65, 51.7, 51.75, 51.8, 51.85, 51.9, 51.95, 52.0, 52.05, 52.1, 52.15, 52.2, 52.25, 52.3, 52.35, 52.4, 52.45, 52.5, 52.55, 52.6, 52.65, 52.7, 52.75, 52.8, 52.85, 52.9, 52.95, 53.0, 53.05, 53.1, 53.15, 53.2, 53.25, 53.3, 53.35, 53.4, 53.45, 53.5, 53.55, 53.6, 53.65, 53.7, 53.75, 53.8, 53.85, 53.9, 53.95, 54.0, 54.05, 54.1, 54.15, 54.2, 54.25, 54.3, 54.35, 54.4, 54.45, 54.5, 54.55, 54.6, 54.65, 54.7, 54.75, 54.8, 54.85, 54.9, 54.95, 55.0, 55.05, 55.1, 55.15, 55.2, 55.25, 55.3, 55.35, 55.4, 55.45, 55.5, 55.55, 55.6, 55.65, 55.7, 55.75, 55.8, 55.85, 55.9, 55.95, 56.0, 56.05, 56.1, 56.15, 56.2, 56.25, 56.3, 56.35, 56.4, 56.45, 56.5, 56.55, 56.6, 56.65, 56.7, 56.75, 56.8, 56.85, 56.9, 56.95, 57.0, 57.05, 57.1, 57.15, 57.2, 57.25, 57.3, 57.35, 57.4, 57.45, 57.5, 57.55, 57.6, 57.65, 57.7, 57.75, 57.8, 57.85, 57.9, 57.95, 58.0, 58.05, 58.1, 58.15, 58.2, 58.25, 58.3, 58.35, 58.4, 58.45, 58.5, 58.55, 58.6, 58.65, 58.7, 58.75, 58.8, 58.85, 58.9, 58.95, 59.0, 59.05, 59.1, 59.15, 59.2, 59.25, 59.3, 59.35, 59.4, 59.45, 59.5, 59.55, 59.6, 59.65, 59.7, 59.75, 59.8, 59.85, 59.9, 59.95, 60.0, 60.05, 60.1, 60.15, 60.2, 6

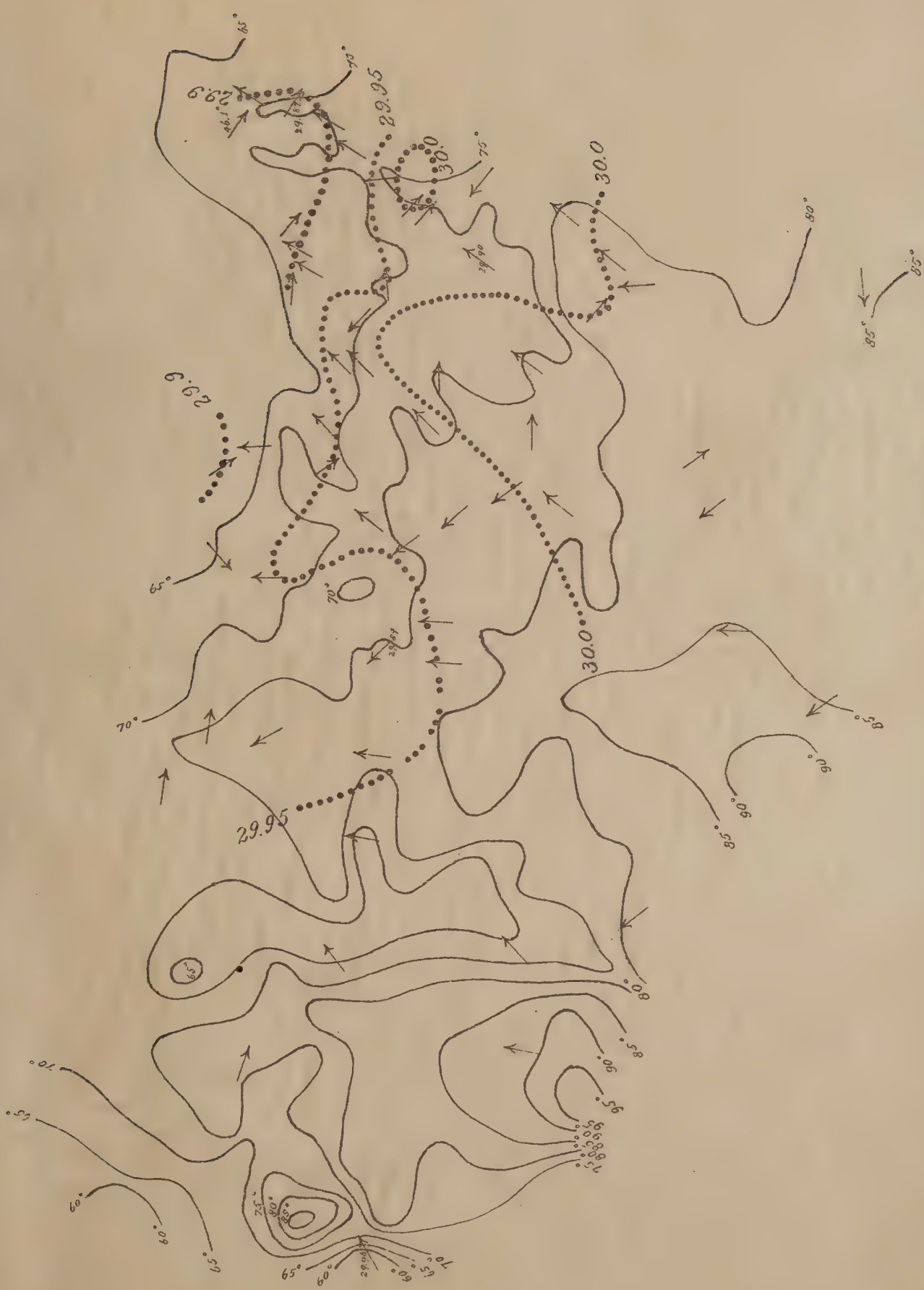


Isobars, Isotherms, and Winds, June, 1871.



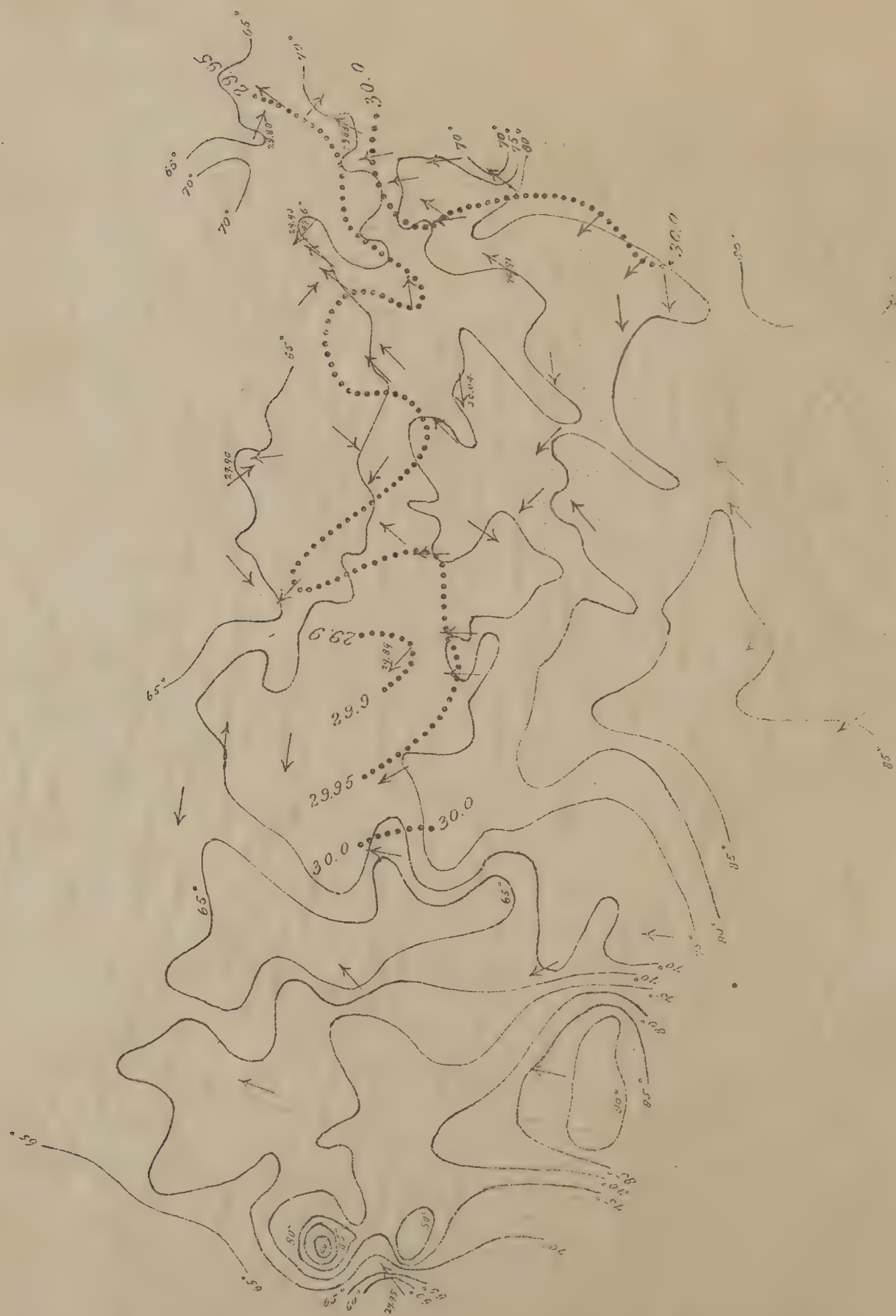


Isobars, Isotherms, and Winds. July. 1871.

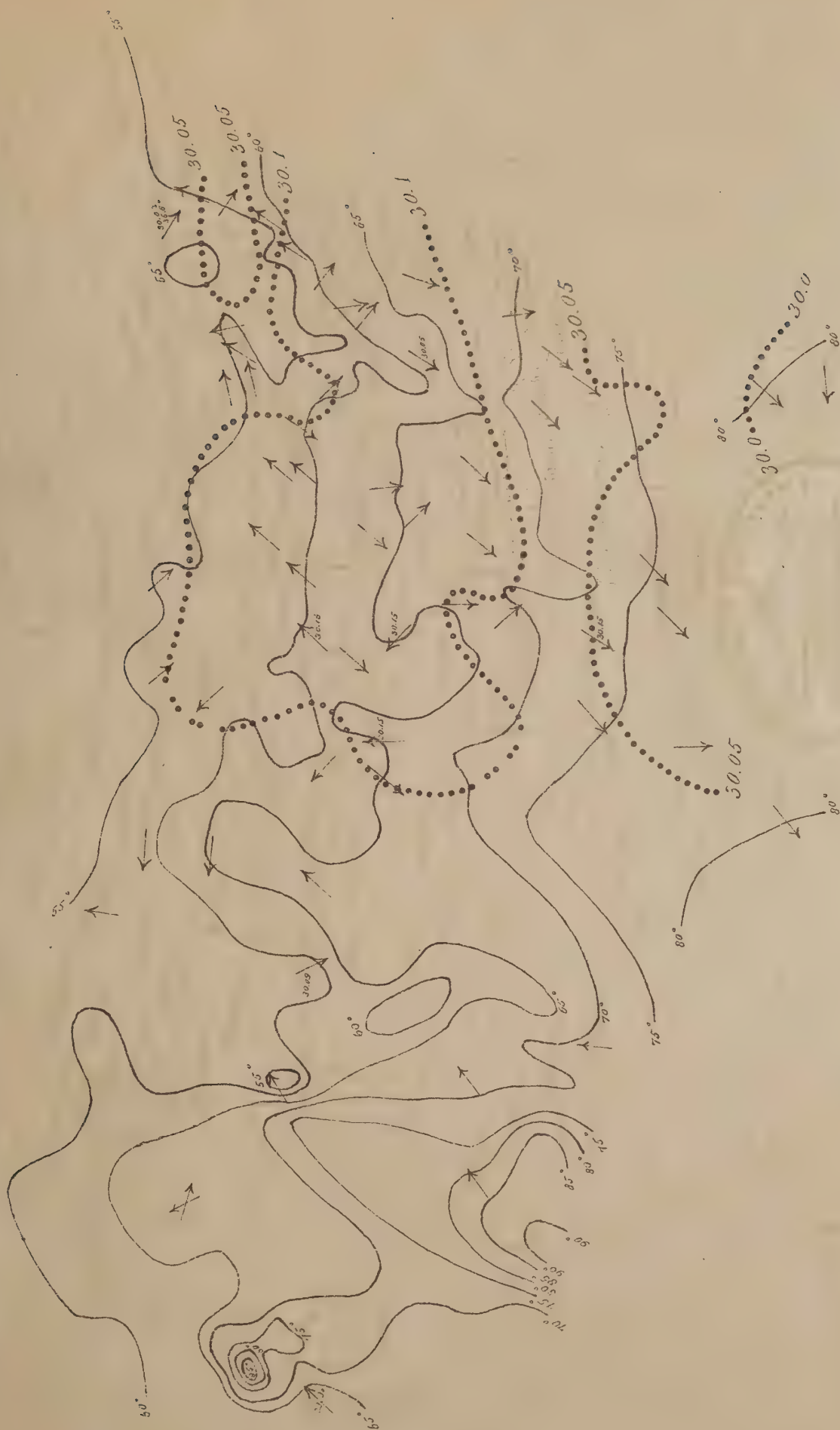




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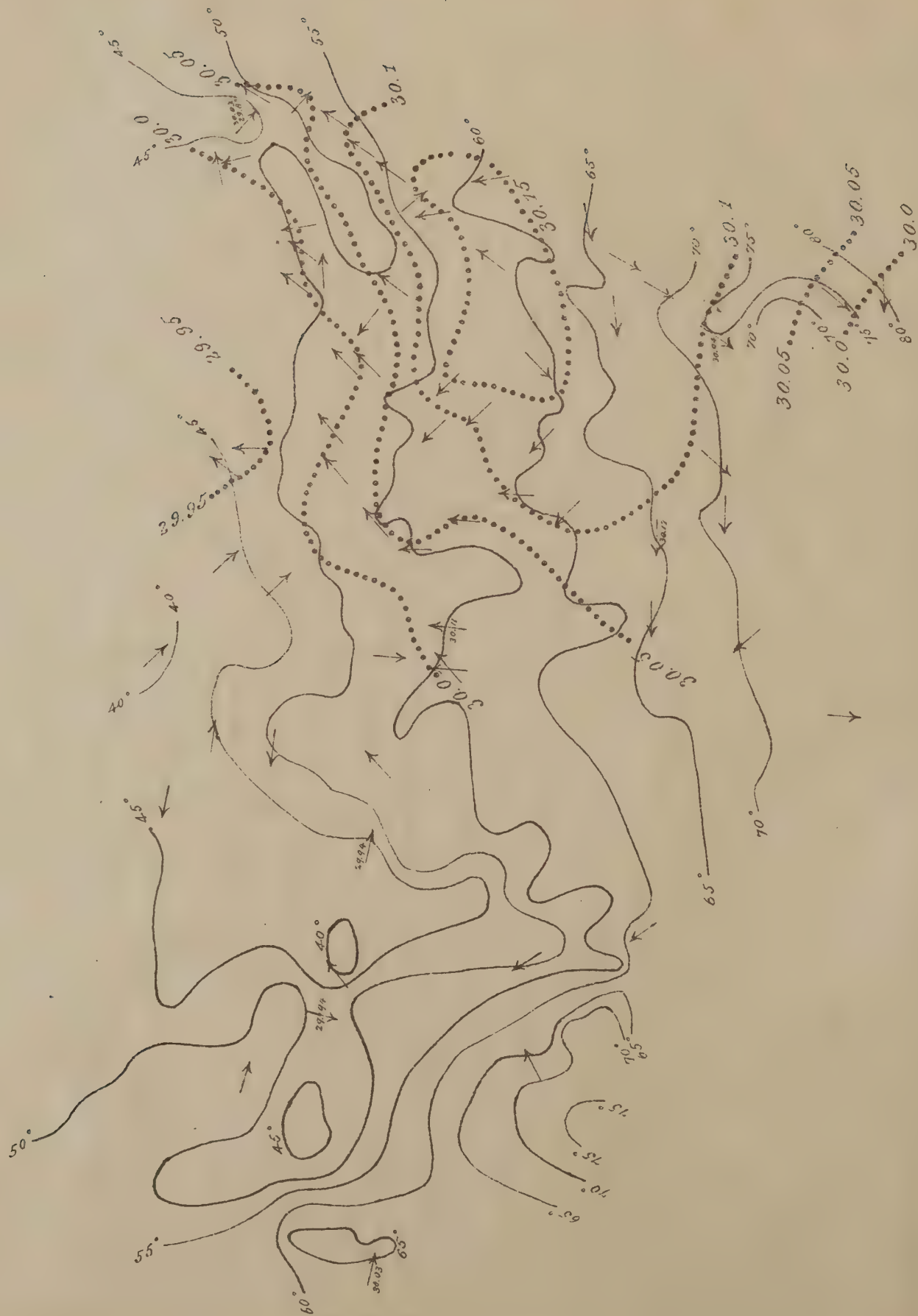




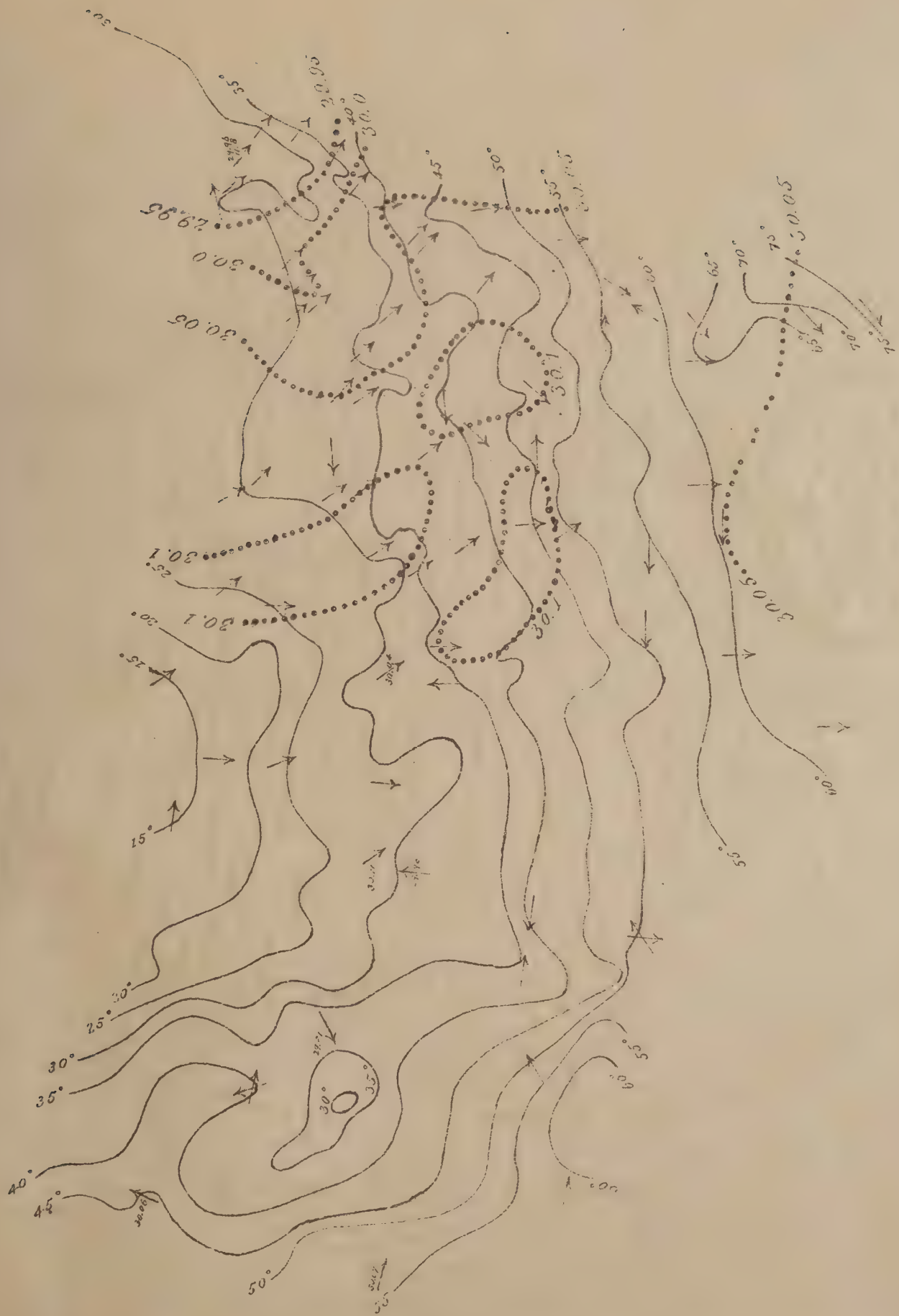




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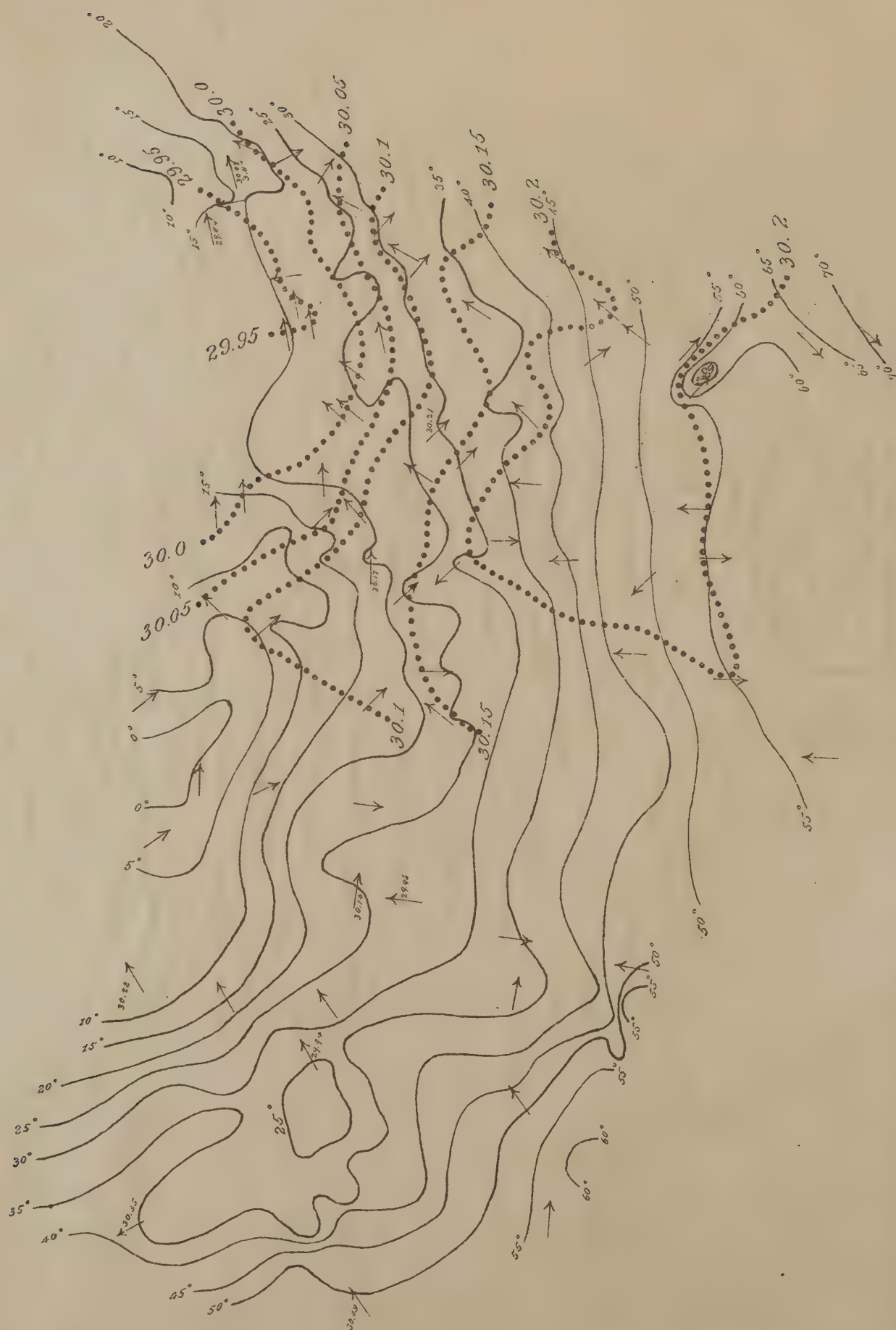








Isobars, Isotherms, and Winds, December, 1871.

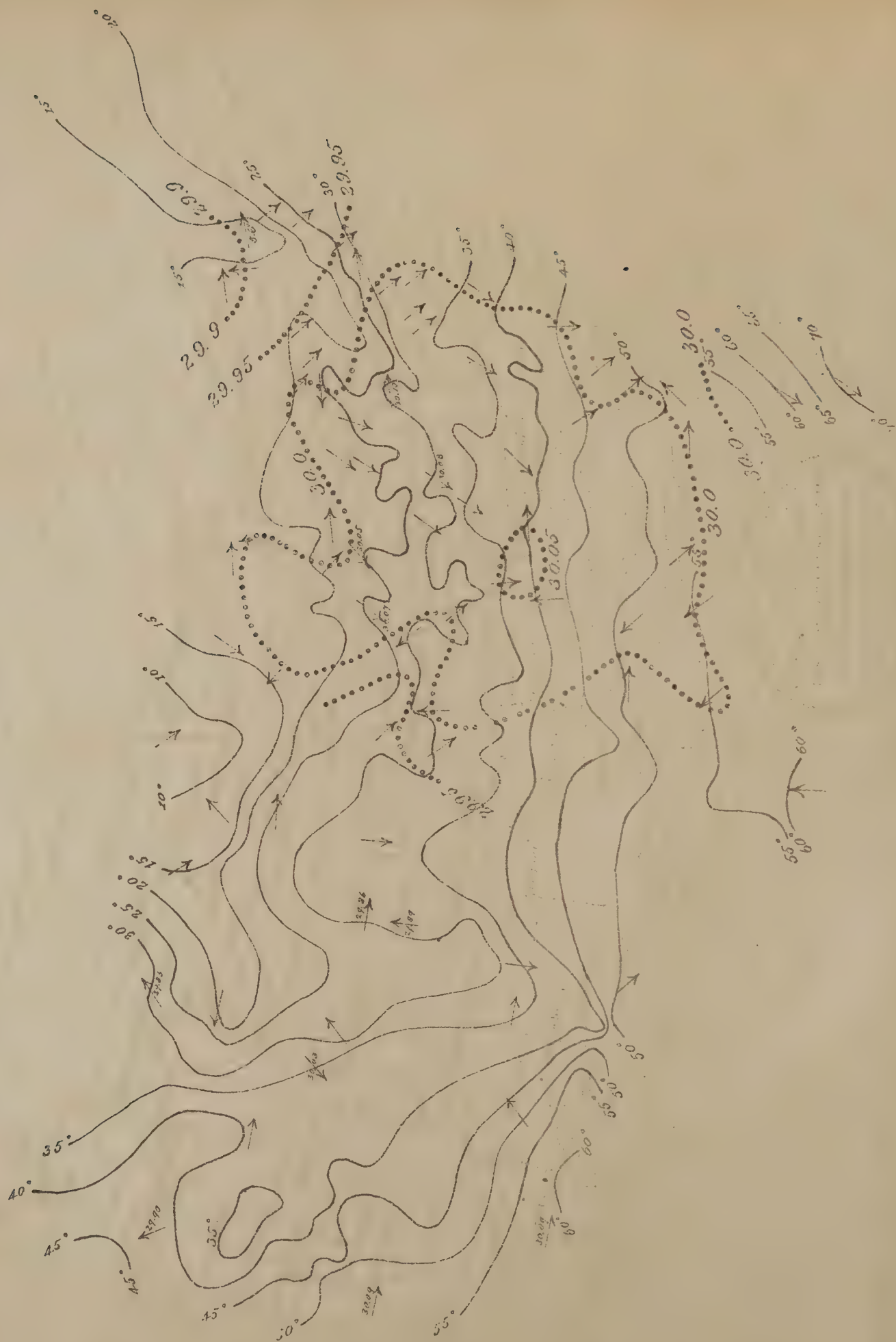


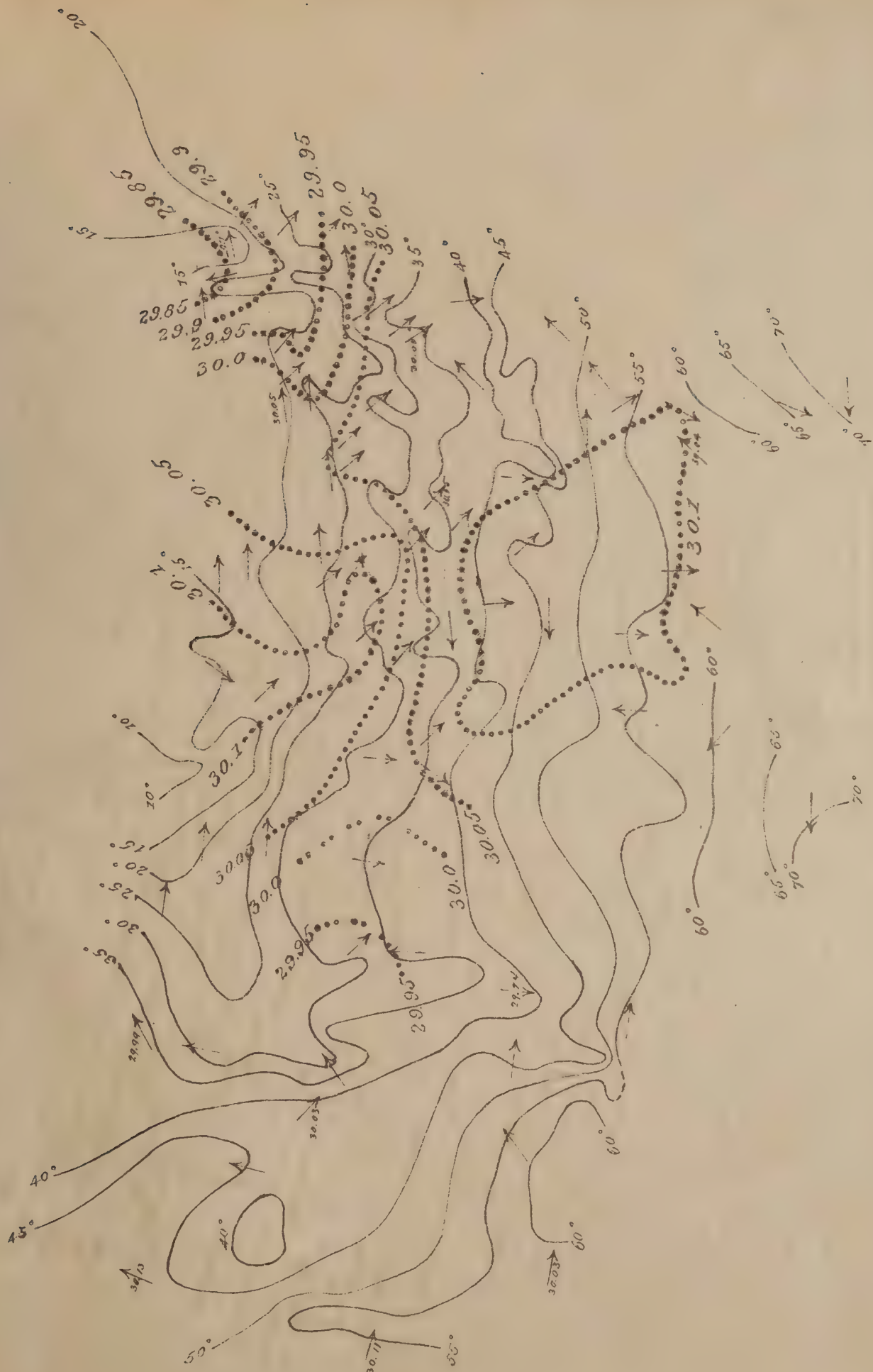


This is a hand-drawn contour map of a mountainous region. The map features several contour lines representing different elevations, with labels such as 20°, 25°, 30°, 35°, 40°, 45°, 50°, 55°, 60°, and 65°. A prominent dotted line with arrows indicates a path or route, starting from the top left and winding through the mountainous terrain. Various numerical values are scattered across the map, including 29.9, 29.95, 30.0, 30.05, 30.1, 30.12, 30.22, 30.25, 30.3, 30.4, 30.5, 30.6, 30.7, 30.8, 30.9, 31.0, 31.1, 31.2, 31.3, 31.4, 31.5, 31.6, 31.7, 31.8, 31.9, 32.0, 32.1, 32.2, 32.3, 32.4, 32.5, 32.6, 32.7, 32.8, 32.9, 33.0, 33.1, 33.2, 33.3, 33.4, 33.5, 33.6, 33.7, 33.8, 33.9, 34.0, 34.1, 34.2, 34.3, 34.4, 34.5, 34.6, 34.7, 34.8, 34.9, 35.0, 35.1, 35.2, 35.3, 35.4, 35.5, 35.6, 35.7, 35.8, 35.9, 36.0, 36.1, 36.2, 36.3, 36.4, 36.5, 36.6, 36.7, 36.8, 36.9, 37.0, 37.1, 37.2, 37.3, 37.4, 37.5, 37.6, 37.7, 37.8, 37.9, 38.0, 38.1, 38.2, 38.3, 38.4, 38.5, 38.6, 38.7, 38.8, 38.9, 39.0, 39.1, 39.2, 39.3, 39.4, 39.5, 39.6, 39.7, 39.8, 39.9, 40.0, 40.1, 40.2, 40.3, 40.4, 40.5, 40.6, 40.7, 40.8, 40.9, 41.0, 41.1, 41.2, 41.3, 41.4, 41.5, 41.6, 41.7, 41.8, 41.9, 42.0, 42.1, 42.2, 42.3, 42.4, 42.5, 42.6, 42.7, 42.8, 42.9, 43.0, 43.1, 43.2, 43.3, 43.4, 43.5, 43.6, 43.7, 43.8, 43.9, 44.0, 44.1, 44.2, 44.3, 44.4, 44.5, 44.6, 44.7, 44.8, 44.9, 45.0, 45.1, 45.2, 45.3, 45.4, 45.5, 45.6, 45.7, 45.8, 45.9, 46.0, 46.1, 46.2, 46.3, 46.4, 46.5, 46.6, 46.7, 46.8, 46.9, 47.0, 47.1, 47.2, 47.3, 47.4, 47.5, 47.6, 47.7, 47.8, 47.9, 48.0, 48.1, 48.2, 48.3, 48.4, 48.5, 48.6, 48.7, 48.8, 48.9, 49.0, 49.1, 49.2, 49.3, 49.4, 49.5, 49.6, 49.7, 49.8, 49.9, 50.0, 50.1, 50.2, 50.3, 50.4, 50.5, 50.6, 50.7, 50.8, 50.9, 51.0, 51.1, 51.2, 51.3, 51.4, 51.5, 51.6, 51.7, 51.8, 51.9, 52.0, 52.1, 52.2, 52.3, 52.4, 52.5, 52.6, 52.7, 52.8, 52.9, 53.0, 53.1, 53.2, 53.3, 53.4, 53.5, 53.6, 53.7, 53.8, 53.9, 54.0, 54.1, 54.2, 54.3, 54.4, 54.5, 54.6, 54.7, 54.8, 54.9, 55.0, 55.1, 55.2, 55.3, 55.4, 55.5, 55.6, 55.7, 55.8, 55.9, 56.0, 56.1, 56.2, 56.3, 56.4, 56.5, 56.6, 56.7, 56.8, 56.9, 57.0, 57.1, 57.2, 57.3, 57.4, 57.5, 57.6, 57.7, 57.8, 57.9, 58.0, 58.1, 58.2, 58.3, 58.4, 58.5, 58.6, 58.7, 58.8, 58.9, 59.0, 59.1, 59.2, 59.3, 59.4, 59.5, 59.6, 59.7, 59.8, 59.9, 60.0, 60.1, 60.2, 60.3, 60.4, 60.5, 60.6, 60.7, 60.8, 60.9, 61.0, 61.1, 61.2, 61.3, 61.4, 61.5, 61.6, 61.7, 61.8, 61.9, 62.0, 62.1, 62.2, 62.3, 62.4, 62.5, 62.6, 62.7, 62.8, 62.9, 63.0, 63.1, 63.2, 63.3, 63.4, 63.5, 63.6, 63.7, 63.8, 63.9, 64.0, 64.1, 64.2, 64.3, 64.4, 64.5, 64.6, 64.7, 64.8, 64.9, 65.0, 65.1, 65.2, 65.3, 65.4, 65.5, 65.6, 65.7, 65.8, 65.9, 66.0, 66.1, 66.2, 66.3, 66.4, 66.5, 66.6, 66.7, 66.8, 66.9, 67.0, 67.1, 67.2, 67.3, 67.4, 67.5, 67.6, 67.7, 67.8, 67.9, 68.0, 68.1, 68.2, 68.3, 68.4, 68.5, 68.6, 68.7, 68.8, 68.9, 69.0, 69.1, 69.2, 69.3, 69.4, 69.5, 69.6, 69.7, 69.8, 69.9, 70.0, 70.1, 70.2, 70.3, 70.4, 70.5, 70.6, 70.7, 70.8, 70.9, 71.0, 71.1, 71.2, 71.3, 71.4, 71.5, 71.6, 71.7, 71.8, 71.9, 72.0, 72.1, 72.2, 72.3, 72.4, 72.5, 72.6, 72.7, 72.8, 72.9, 73.0, 73.1, 73.2, 73.3, 73.4, 73.5, 73.6, 73.7, 73.8, 73.9, 74.0, 74.1, 74.2, 74.3, 74.4, 74.5, 74.6, 74.7, 74.8, 74.9, 75.0, 75.1, 75.2, 75.3, 75.4, 75.5, 75.6, 75.7, 75.8, 75.9, 76.0, 76.1, 76.2, 76.3, 76.4, 76.5, 76.6, 76.7, 76.8, 76.9, 77.0, 77.1, 77.2, 77.3, 77.4, 77.5, 77.6, 77.7, 77.8, 77.9, 78.0, 78.1, 78.2, 78.3, 78.4, 78.5, 78.6, 78.7, 78.8, 78.9, 79.0, 79.1, 79.2, 79.3, 79.4, 79.5, 79.6, 79.7, 79.8, 79.9, 80.0, 80.1, 80.2, 80.3, 80.4, 80.5, 80.6, 80.7, 80.8, 80.9, 81.0, 81.1, 81.2, 81.3, 81.4, 81.5, 81.6, 81.7, 81.8, 81.9, 82.0, 82.1, 82.2, 82.3, 82.4, 82.5, 82.6, 82.7, 82.8, 82.9, 83.0, 83.1, 83.2, 83.3, 83.4, 83.5, 83.6, 83.7, 83.8, 83.9, 84.0, 84.1, 84.2, 84.3, 84.4, 84.5, 84.6, 84.7, 84.8, 84.9, 85.0, 85.1, 85.2, 85.3, 85.4, 85.5, 85.6, 85.7, 85.8, 85.9, 86.0, 86.1, 86.2, 86.3, 86.4, 86.5, 86.6, 86.7, 86.8, 86.9, 87.0, 87.1, 87.2, 87.3, 87.4, 87.5, 87.6, 87.7, 87.8, 87.9, 88.0, 88.1, 88.2, 88.3, 88.4, 88.5, 88.6, 88.7, 88.8, 88.9, 89.0, 89.1, 89.2, 89.3, 89.4, 89.5, 89.6, 89.7, 89.8, 89.9, 90.0, 90.1, 90.2, 90.3, 90.4, 90.5, 90.6, 90.7, 90.8, 90.9, 91.0, 91.1, 91.2, 91.3, 91.4, 91.5, 91.6, 91.7, 91.8, 91.9, 92.0, 92.1, 92.2, 92.3, 92.4, 92.5, 92.6, 92.7, 92.8, 92.9, 93.0, 93.1, 93.2, 93.3, 93.4, 93.5, 93.6, 93.7, 93.8, 93.9, 94.0, 94.1, 94.2, 94.3, 94.4, 94.5, 94.6, 94.7, 94.8, 94.9, 95.0, 95.1, 95.2, 95.3, 95



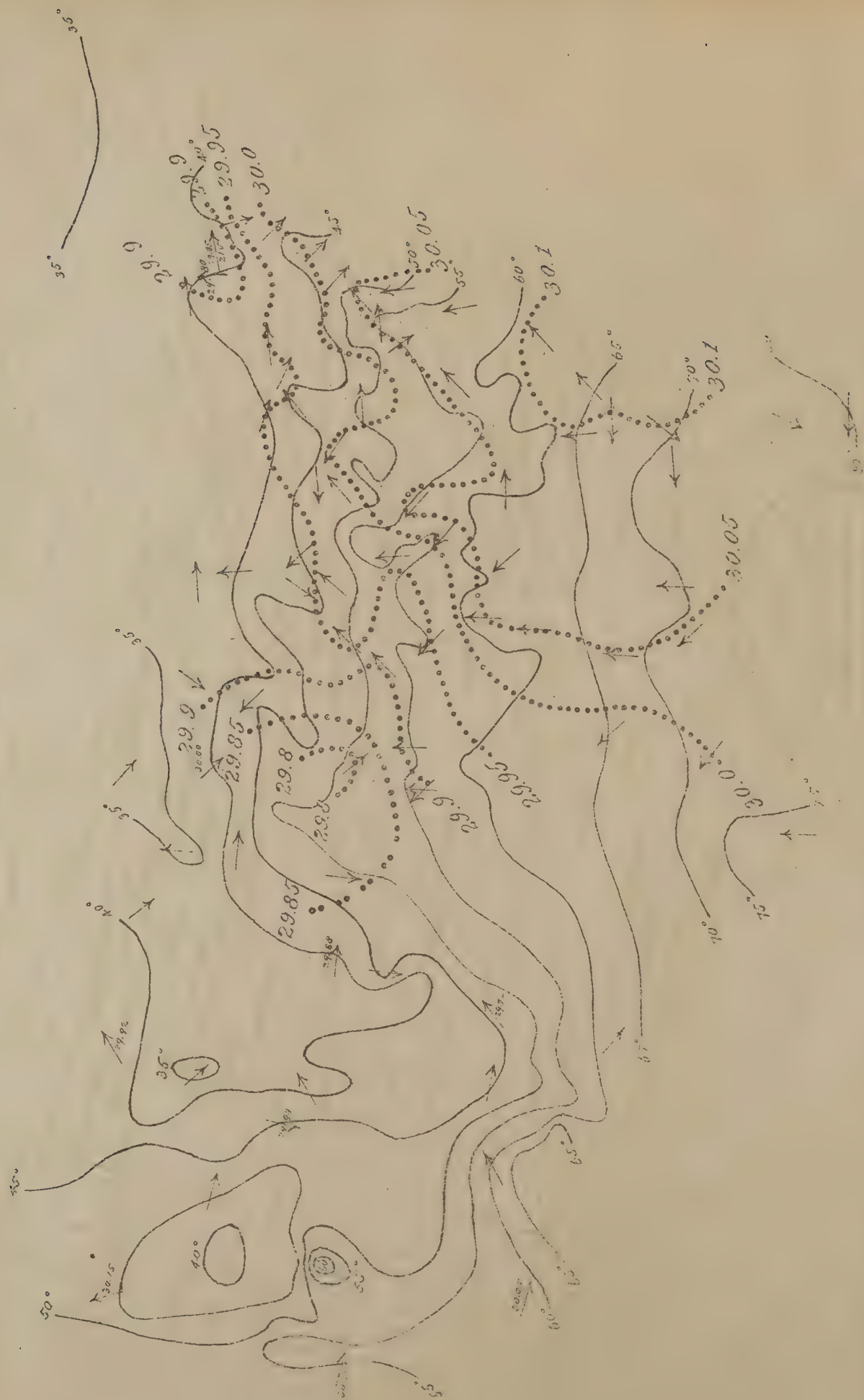
## Isobars, Isotherms, and Winds. February, 1872.







Isobars, Isotherms, and Winds, April, 1872.

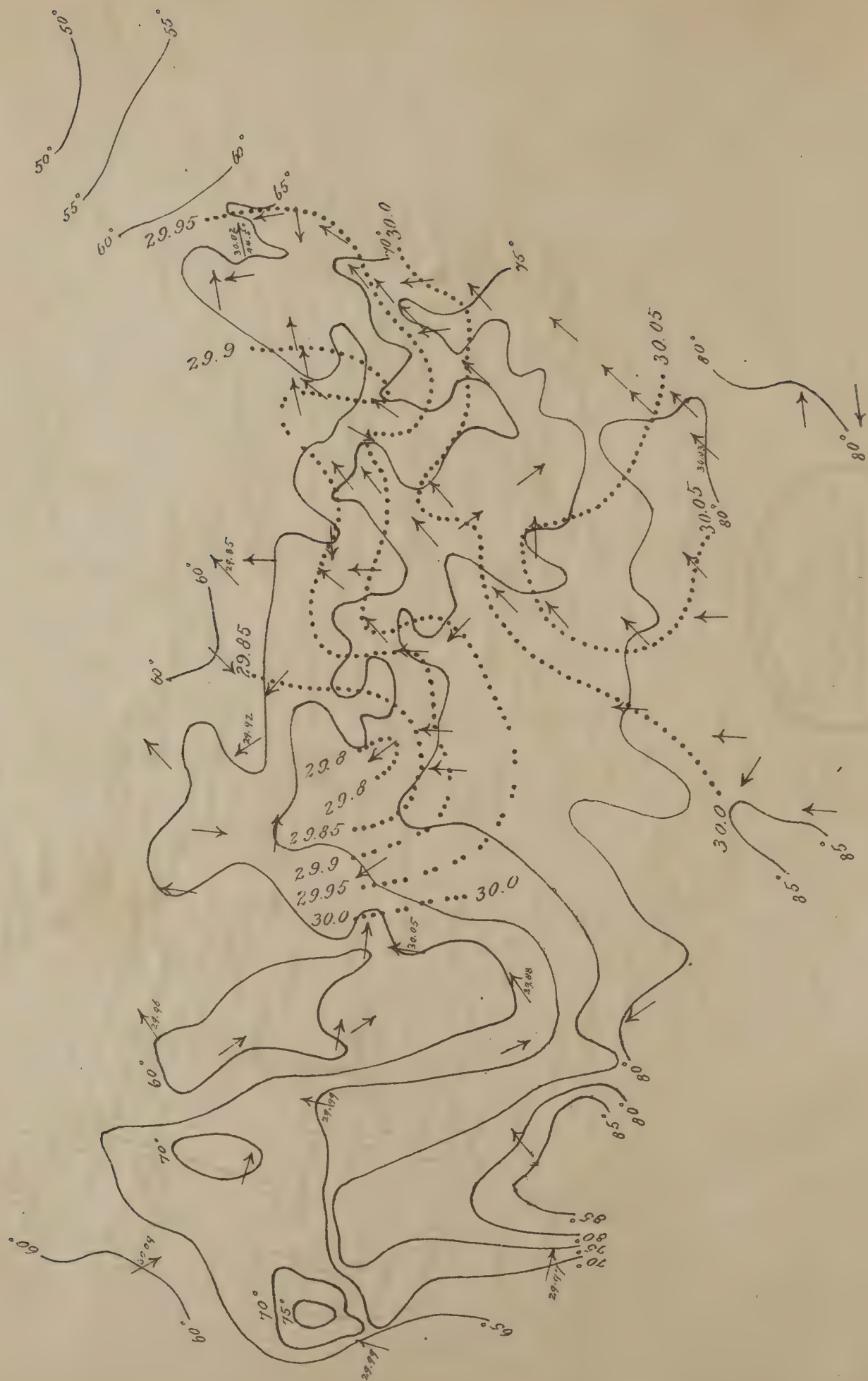


A hand-drawn map of a river system, likely a tributary of the Amazon, showing a complex network of channels and floodplains. The map is oriented with North at the top. Key features include:

- Flow Direction:** Indicated by numerous arrows pointing generally towards the top and right of the page.
- Contour Lines:** Solid lines representing elevation, with labels such as 29.0, 29.5, 30.0, 30.5, 31.0, 31.5, 32.0, 32.5, 33.0, 33.5, 34.0, 34.5, 35.0, 35.5, 36.0, 36.5, 37.0, 37.5, 38.0, 38.5, 39.0, 39.5, 40.0, 40.5, 41.0, 41.5, 42.0, 42.5, 43.0, 43.5, 44.0, 44.5, 45.0, 45.5, 46.0, 46.5, 47.0, 47.5, 48.0, 48.5, 49.0, 49.5, 50.0, 50.5, 51.0, 51.5, 52.0, 52.5, 53.0, 53.5, 54.0, 54.5, 55.0, 55.5, 56.0, 56.5, 57.0, 57.5, 58.0, 58.5, 59.0, 59.5, 60.0, 60.5, 61.0, 61.5, 62.0, 62.5, 63.0, 63.5, 64.0, 64.5, 65.0, 65.5, 66.0, 66.5, 67.0, 67.5, 68.0, 68.5, 69.0, 69.5, 70.0, 70.5, 71.0, 71.5, 72.0, 72.5, 73.0, 73.5, 74.0, 74.5, 75.0, 75.5, 76.0, 76.5, 77.0, 77.5, 78.0, 78.5, 79.0, 79.5, 80.0, 80.5, 81.0, 81.5, 82.0, 82.5, 83.0, 83.5, 84.0, 84.5, 85.0, 85.5, 86.0, 86.5, 87.0, 87.5, 88.0, 88.5, 89.0, 89.5, 90.0, 90.5, 91.0, 91.5, 92.0, 92.5, 93.0, 93.5, 94.0, 94.5, 95.0, 95.5, 96.0, 96.5, 97.0, 97.5, 98.0, 98.5, 99.0, 99.5, 100.0, 100.5, 101.0, 101.5, 102.0, 102.5, 103.0, 103.5, 104.0, 104.5, 105.0, 105.5, 106.0, 106.5, 107.0, 107.5, 108.0, 108.5, 109.0, 109.5, 110.0, 110.5, 111.0, 111.5, 112.0, 112.5, 113.0, 113.5, 114.0, 114.5, 115.0, 115.5, 116.0, 116.5, 117.0, 117.5, 118.0, 118.5, 119.0, 119.5, 120.0, 120.5, 121.0, 121.5, 122.0, 122.5, 123.0, 123.5, 124.0, 124.5, 125.0, 125.5, 126.0, 126.5, 127.0, 127.5, 128.0, 128.5, 129.0, 129.5, 130.0, 130.5, 131.0, 131.5, 132.0, 132.5, 133.0, 133.5, 134.0, 134.5, 135.0, 135.5, 136.0, 136.5, 137.0, 137.5, 138.0, 138.5, 139.0, 139.5, 140.0, 140.5, 141.0, 141.5, 142.0, 142.5, 143.0, 143.5, 144.0, 144.5, 145.0, 145.5, 146.0, 146.5, 147.0, 147.5, 148.0, 148.5, 149.0, 149.5, 150.0, 150.5, 151.0, 151.5, 152.0, 152.5, 153.0, 153.5, 154.0, 154.5, 155.0, 155.5, 156.0, 156.5, 157.0, 157.5, 158.0, 158.5, 159.0, 159.5, 160.0, 160.5, 161.0, 161.5, 162.0, 162.5, 163.0, 163.5, 164.0, 164.5, 165.0, 165.5, 166.0, 166.5, 167.0, 167.5, 168.0, 168.5, 169.0, 169.5, 170.0, 170.5, 171.0, 171.5, 172.0, 172.5, 173.0, 173.5, 174.0, 174.5, 175.0, 175.5, 176.0, 176.5, 177.0, 177.5, 178.0, 178.5, 179.0, 179.5, 180.0, 180.5, 181.0, 181.5, 182.0, 182.5, 183.0, 183.5, 184.0, 184.5, 185.0, 185.5, 186.0, 186.5, 187.0, 187.5, 188.0, 188.5, 189.0, 189.5, 190.0, 190.5, 191.0, 191.5, 192.0, 192.5, 193.0, 193.5, 194.0, 194.5, 195.0, 195.5, 196.0, 196.5, 197.0, 197.5, 198.0, 198.5, 199.0, 199.5, 200.0, 200.5, 201.0, 201.5, 202.0, 202.5, 203.0, 203.5, 204.0, 204.5, 205.0, 205.5, 206.0, 206.5, 207.0, 207.5, 208.0, 208.5, 209.0, 209.5, 210.0, 210.5, 211.0, 211.5, 212.0, 212.5, 213.0, 213.5, 214.0, 214.5, 215.0, 215.5, 216.0, 216.5, 217.0, 217.5, 218.0, 218.5, 219.0, 219.5, 220.0, 220.5, 221.0, 221.5, 222.0, 222.5, 223.0, 223.5, 224.0, 224.5, 225.0, 225.5, 226.0, 226.5, 227.0, 227.5, 228.0, 228.5, 229.0, 229.5, 230.0, 230.5, 231.0, 231.5, 232.0, 232.5, 233.0, 233.5, 234.0, 234.5, 235.0, 235.5, 236.0, 236.5, 237.0, 237.5, 238.0, 238.5, 239.0, 239.5, 240.0, 240.5, 241.0, 241.5, 242.0, 242.5, 243.0, 243.5, 244.0, 244.5, 245.0, 245.5, 246.0, 246.5, 247.0, 247.5, 248.0, 248.5, 249.0, 249.5, 250.0, 250.5, 251.0, 251.5, 252.0, 252.5, 253.0, 253.5, 254.0, 254.5, 255.0, 255.5, 256.0, 256.5, 257.0, 257.5, 258.0, 258.5, 259.0, 259.5, 260.0, 260.5, 261.0, 261.5, 262.0, 262.5, 263.0, 263.5, 264.0, 264.5, 265.0, 265.5, 266.0, 266.5, 267.0, 267.5, 268.0, 268.5, 269.0, 269.5, 270.0, 270.5, 271.0, 271.5, 272.0, 272.5, 273.0, 273.5, 274.0, 274.5, 275.0, 275.5, 276.0, 276.5, 277.0, 277.5, 278.0, 278.5, 279.0, 279.5, 280.0, 280.5, 281.0, 281.5, 282.0, 282.5, 283.0, 283.5, 284.0, 284.5, 285.0, 285.5, 286.0, 286.5, 287.0, 287.5, 288.0, 288.5, 289.0, 289.5, 290.0, 290.5, 291.0, 291.5, 292.0, 292.5, 293.0, 293.5, 294.0, 294.5, 295.0, 295.5, 296.0, 296.5, 297.0, 297.5, 298.0, 298.5, 299.0, 299.5, 300.0, 300.5, 301.0, 301.5, 302.0, 302.5, 303.0, 303.5, 304.0, 304.5, 305.0, 305.5, 306.0, 306.5, 307.0, 307.5, 308.0, 308.5, 309.0, 309.5, 310.0, 310.5, 311.0, 311.5, 312.0, 312.5, 313.0, 313.5, 314.0, 314.5, 315.0, 315.5, 316.0, 316.5, 317.0, 317.5, 318.0, 318.5, 319.0, 319.5, 320.0, 320.5, 321.0, 321.5, 322.0, 322.5,



Isobars, Isotherms, and Winds, June, 1872.

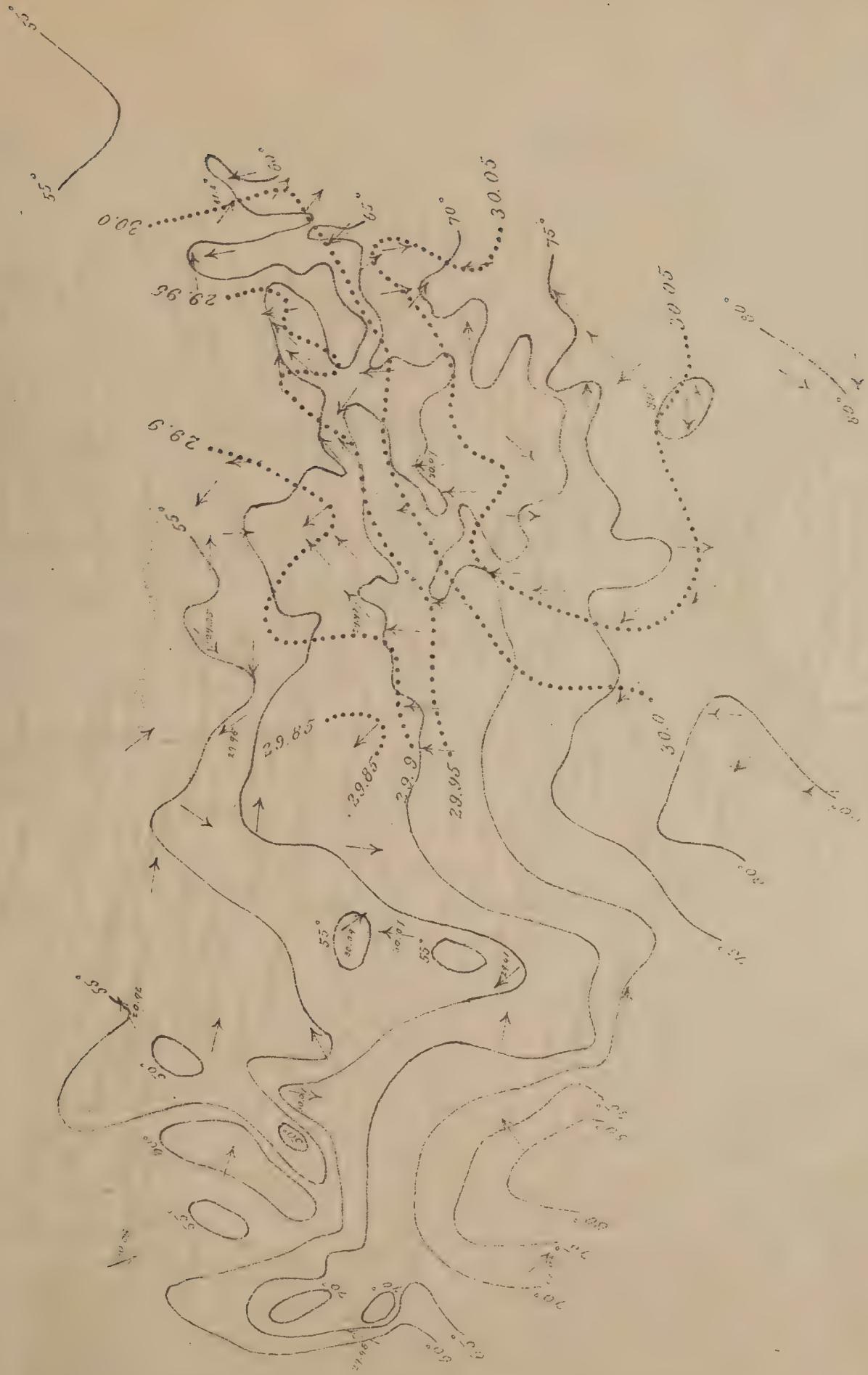


A hand-drawn contour map on a piece of paper. The map features several contour lines, some solid and some dotted, representing different elevations. Key elevation points are labeled with numbers: 29.85, 29.9, 29.95, 30.0, 30.05, 30.10, 30.15, 30.20, 30.25, 30.30, 30.35, 30.40, 30.45, 30.50, 30.55, 30.60, 30.65, 30.70, 30.75, 30.80, 30.85, 30.90, 30.95, 31.00, 31.05, 31.10, 31.15, 31.20, 31.25, 31.30, 31.35, 31.40, 31.45, 31.50, 31.55, 31.60, 31.65, 31.70, 31.75, 31.80, 31.85, 31.90, 31.95, 32.00, 32.05, 32.10, 32.15, 32.20, 32.25, 32.30, 32.35, 32.40, 32.45, 32.50, 32.55, 32.60, 32.65, 32.70, 32.75, 32.80, 32.85, 32.90, 32.95, 33.00, 33.05, 33.10, 33.15, 33.20, 33.25, 33.30, 33.35, 33.40, 33.45, 33.50, 33.55, 33.60, 33.65, 33.70, 33.75, 33.80, 33.85, 33.90, 33.95, 34.00, 34.05, 34.10, 34.15, 34.20, 34.25, 34.30, 34.35, 34.40, 34.45, 34.50, 34.55, 34.60, 34.65, 34.70, 34.75, 34.80, 34.85, 34.90, 34.95, 35.00, 35.05, 35.10, 35.15, 35.20, 35.25, 35.30, 35.35, 35.40, 35.45, 35.50, 35.55, 35.60, 35.65, 35.70, 35.75, 35.80, 35.85, 35.90, 35.95, 36.00, 36.05, 36.10, 36.15, 36.20, 36.25, 36.30, 36.35, 36.40, 36.45, 36.50, 36.55, 36.60, 36.65, 36.70, 36.75, 36.80, 36.85, 36.90, 36.95, 37.00, 37.05, 37.10, 37.15, 37.20, 37.25, 37.30, 37.35, 37.40, 37.45, 37.50, 37.55, 37.60, 37.65, 37.70, 37.75, 37.80, 37.85, 37.90, 37.95, 38.00, 38.05, 38.10, 38.15, 38.20, 38.25, 38.30, 38.35, 38.40, 38.45, 38.50, 38.55, 38.60, 38.65, 38.70, 38.75, 38.80, 38.85, 38.90, 38.95, 39.00, 39.05, 39.10, 39.15, 39.20, 39.25, 39.30, 39.35, 39.40, 39.45, 39.50, 39.55, 39.60, 39.65, 39.70, 39.75, 39.80, 39.85, 39.90, 39.95, 40.00, 40.05, 40.10, 40.15, 40.20, 40.25, 40.30, 40.35, 40.40, 40.45, 40.50, 40.55, 40.60, 40.65, 40.70, 40.75, 40.80, 40.85, 40.90, 40.95, 41.00, 41.05, 41.10, 41.15, 41.20, 41.25, 41.30, 41.35, 41.40, 41.45, 41.50, 41.55, 41.60, 41.65, 41.70, 41.75, 41.80, 41.85, 41.90, 41.95, 42.00, 42.05, 42.10, 42.15, 42.20, 42.25, 42.30, 42.35, 42.40, 42.45, 42.50, 42.55, 42.60, 42.65, 42.70, 42.75, 42.80, 42.85, 42.90, 42.95, 43.00, 43.05, 43.10, 43.15, 43.20, 43.25, 43.30, 43.35, 43.40, 43.45, 43.50, 43.55, 43.60, 43.65, 43.70, 43.75, 43.80, 43.85, 43.90, 43.95, 44.00, 44.05, 44.10, 44.15, 44.20, 44.25, 44.30, 44.35, 44.40, 44.45, 44.50, 44.55, 44.60, 44.65, 44.70, 44.75, 44.80, 44.85, 44.90, 44.95, 45.00, 45.05, 45.10, 45.15, 45.20, 45.25, 45.30, 45.35, 45.40, 45.45, 45.50, 45.55, 45.60, 45.65, 45.70, 45.75, 45.80, 45.85, 45.90, 45.95, 46.00, 46.05, 46.10, 46.15, 46.20, 46.25, 46.30, 46.35, 46.40, 46.45, 46.50, 46.55, 46.60, 46.65, 46.70, 46.75, 46.80, 46.85, 46.90, 46.95, 47.00, 47.05, 47.10, 47.15, 47.20, 47.25, 47.30, 47.35, 47.40, 47.45, 47.50, 47.55, 47.60, 47.65, 47.70, 47.75, 47.80, 47.85, 47.90, 47.95, 48.00, 48.05, 48.10, 48.15, 48.20, 48.25, 48.30, 48.35, 48.40, 48.45, 48.50, 48.55, 48.60, 48.65, 48.70, 48.75, 48.80, 48.85, 48.90, 48.95, 49.00, 49.05, 49.10, 49.15, 49.20, 49.25, 49.30, 49.35, 49.40, 49.45, 49.50, 49.55, 49.60, 49.65, 49.70, 49.75, 49.80, 49.85, 49.90, 49.95, 50.00, 50.05, 50.10, 50.15, 50.20, 50.25, 50.30, 50.35, 50.40, 50.45, 50.50, 50.55, 50.60, 50.65, 50.70, 50.75, 50.80, 50.85, 50.90, 50.95, 51.00, 51.05, 51.10, 51.15, 51.20, 51.25, 51.30, 51.35, 51.40, 51.45, 51.50, 51.55, 51.60, 51.65, 51.70, 51.75, 51.80, 51.85, 51.90, 51.95, 52.00, 52.05, 52.10, 52.15, 52.20, 52.25, 52.30, 52.35, 52.40, 52.45, 52.50, 52.55, 52.60, 52.65, 52.70, 52.75, 52.80, 52.85, 52.90, 52.95, 53.00, 53.05, 53.10, 53.15, 53.20, 53.25, 53.30, 53.35, 53.40, 53.45, 53.50, 53.55, 53.60, 53.65, 53.70, 53.75, 53.80, 53.85, 53.90, 53.95, 54.00, 54.05, 54.10, 54.15, 54.20, 54.25, 54.30, 54.35, 54.40, 54.45, 54.50, 54.55, 54.60, 54.65, 54.70, 54.75, 54.80, 54.85, 54.90, 54.95, 55.00, 55.05, 55.10, 55.15, 55.20, 55.25, 55.30, 55.35, 55.40, 55.45, 55.50, 55.55, 55.60, 55.65, 55.70, 55.75, 55.80, 55.85, 55.90, 55.95, 56.00, 56.05, 56.10, 56.15, 56.20, 56.25, 56.30, 56.35, 56.40, 56.45, 56.50, 56.55, 56.60, 56.65, 56.70, 56.75, 56.80, 56.85, 56.90, 56.95, 57.00, 57.05, 57.10, 57.15, 57.20, 57.25, 57.30, 57.35, 57.40, 57.45, 57.50, 57.55, 57.60, 57.65, 57.70, 57.75, 57.80, 57.85, 57.90, 57.95, 58.00, 58.05, 58.10, 58.15, 58.20, 58.25, 58.30, 58.35, 58.40, 58.45, 58.50, 58.55, 58.60, 58.65



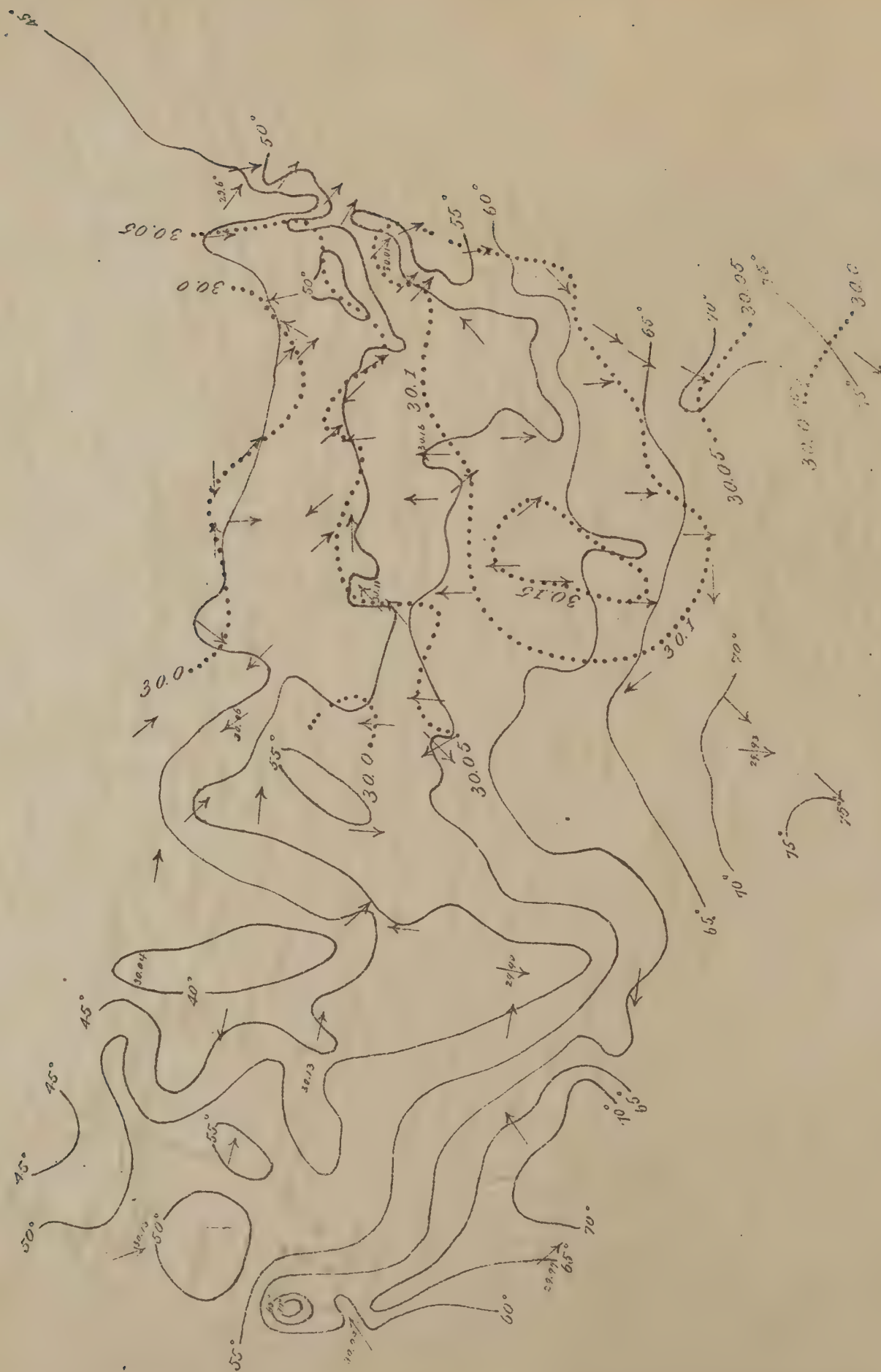
A hand-drawn map of a river system, likely a tributary of the Amazon, showing a complex network of channels and islands. The map includes several contour lines with elevations such as 500, 600, 700, 800, 900, 1000, 1100, 1200, 1300, 1400, 1500, 1600, 1700, 1800, 1900, 2000, 2100, 2200, 2300, 2400, 2500, 2600, 2700, 2800, 2900, 3000, 3100, 3200, 3300, 3400, 3500, 3600, 3700, 3800, 3900, 4000, 4100, 4200, 4300, 4400, 4500, 4600, 4700, 4800, 4900, 5000, 5100, 5200, 5300, 5400, 5500, 5600, 5700, 5800, 5900, 6000, 6100, 6200, 6300, 6400, 6500, 6600, 6700, 6800, 6900, 7000, 7100, 7200, 7300, 7400, 7500, 7600, 7700, 7800, 7900, 8000, 8100, 8200, 8300, 8400, 8500, 8600, 8700, 8800, 8900, 9000, 9100, 9200, 9300, 9400, 9500, 9600, 9700, 9800, 9900, 10000. The map also features numerous arrows indicating the direction of water flow, and several points marked with 'X' and numbers, possibly representing specific locations or measurements. The drawing is on a piece of paper with a grid of small squares, and the overall style is that of a field sketch or a preliminary map.

Isobars, Isotherms, and Winds, September, 1872.





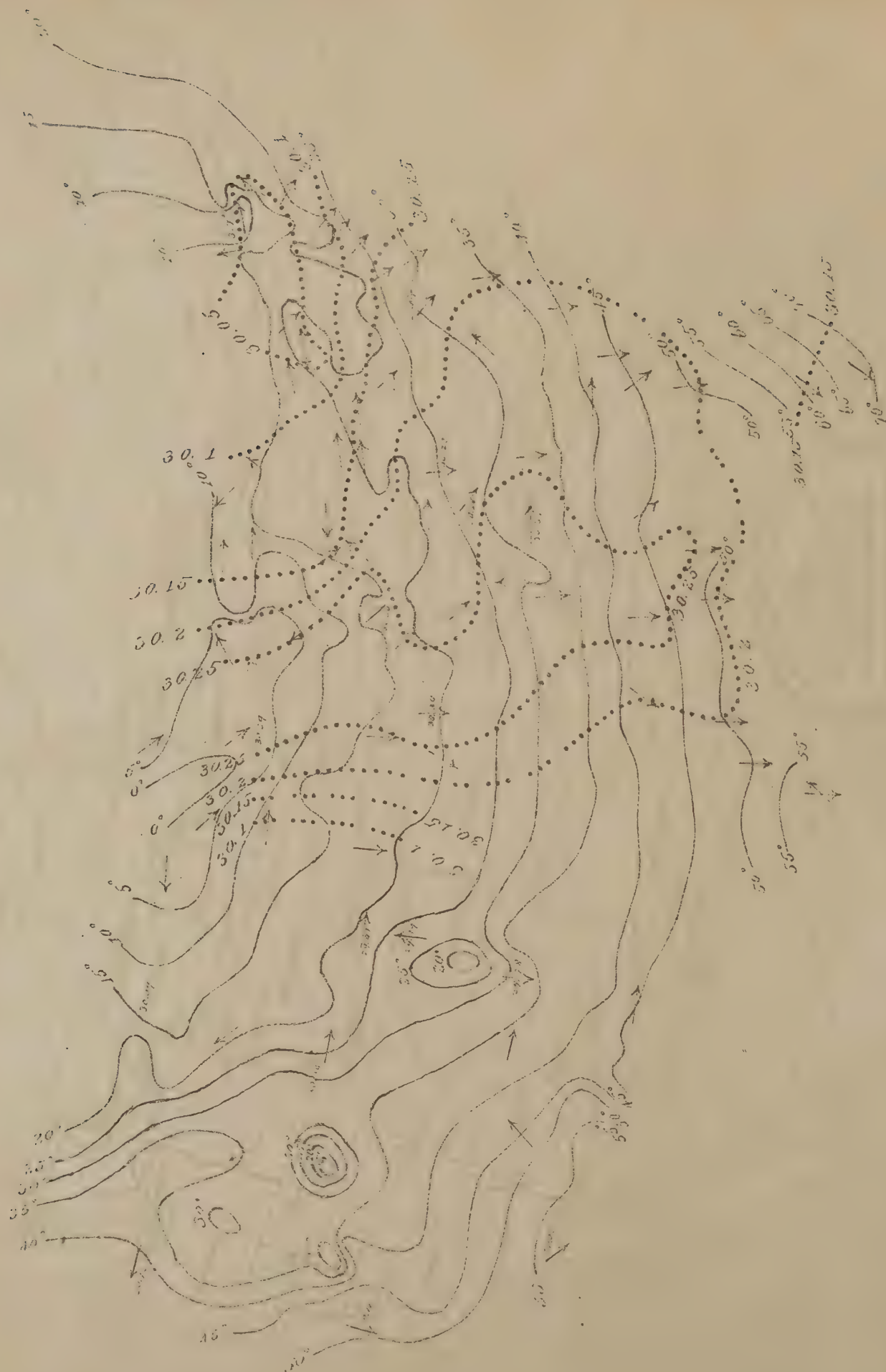
Isobars, Isotherms, and Winds, October, 1872.







Isobars, Isotherms, and Winds, December, 1872.

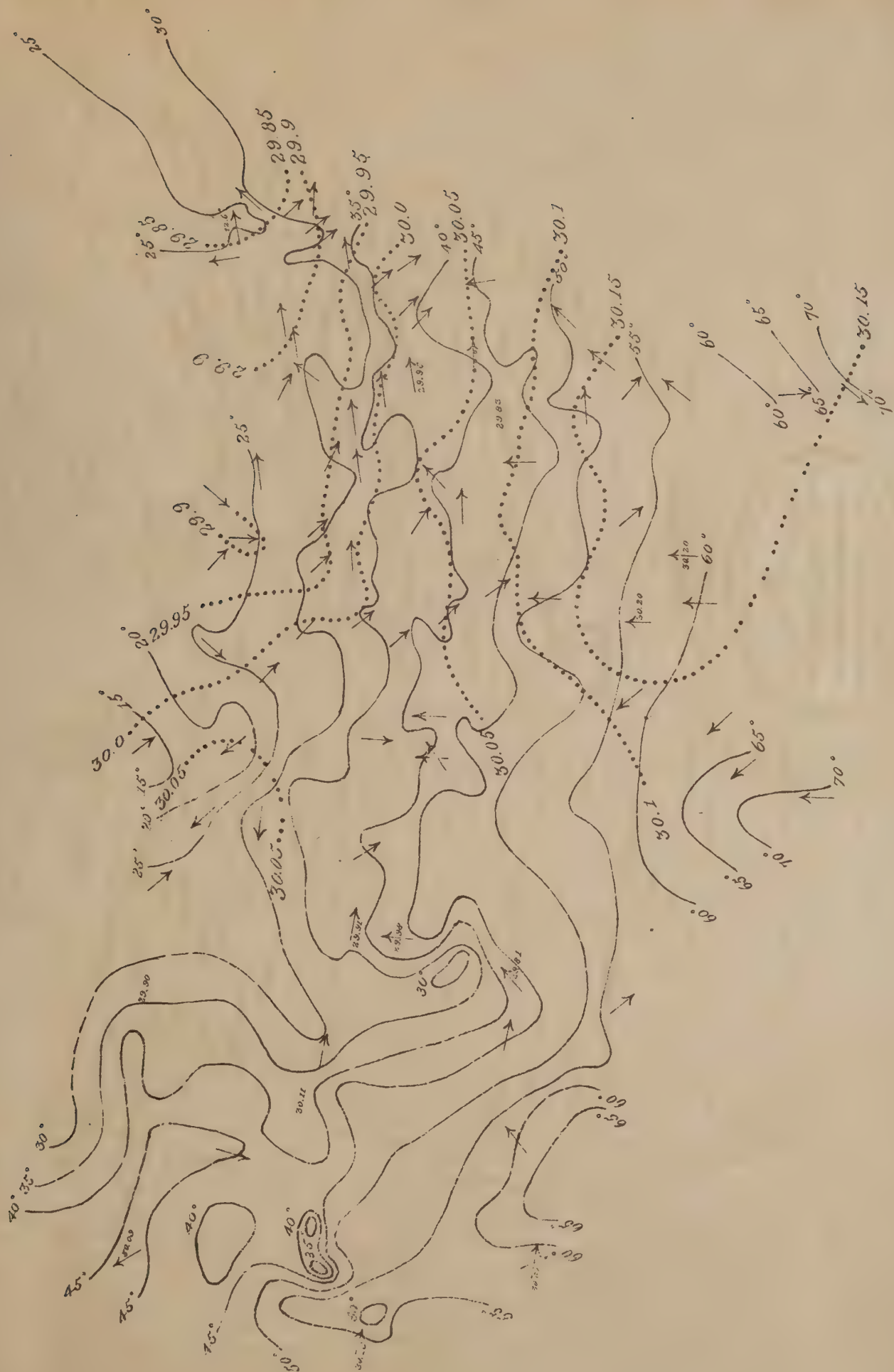


This is a hand-drawn contour map on a grid of latitude and longitude. The map shows a mountainous region with several peaks. The contour lines are labeled with values such as 30.0, 30.05, 30.1, 30.15, 30.2, 30.25, 30.3, 30.4, 30.5, 30.6, 30.7, 30.8, 30.9, 31.0, 31.1, 31.2, 31.3, 31.4, 31.5, 31.6, 31.7, 31.8, 31.9, 32.0, 32.1, 32.2, 32.3, 32.4, 32.5, 32.6, 32.7, 32.8, 32.9, 33.0, 33.1, 33.2, 33.3, 33.4, 33.5, 33.6, 33.7, 33.8, 33.9, 34.0, 34.1, 34.2, 34.3, 34.4, 34.5, 34.6, 34.7, 34.8, 34.9, 35.0, 35.1, 35.2, 35.3, 35.4, 35.5, 35.6, 35.7, 35.8, 35.9, 36.0, 36.1, 36.2, 36.3, 36.4, 36.5, 36.6, 36.7, 36.8, 36.9, 37.0, 37.1, 37.2, 37.3, 37.4, 37.5, 37.6, 37.7, 37.8, 37.9, 38.0, 38.1, 38.2, 38.3, 38.4, 38.5, 38.6, 38.7, 38.8, 38.9, 39.0, 39.1, 39.2, 39.3, 39.4, 39.5, 39.6, 39.7, 39.8, 39.9, 40.0, 40.1, 40.2, 40.3, 40.4, 40.5, 40.6, 40.7, 40.8, 40.9, 41.0, 41.1, 41.2, 41.3, 41.4, 41.5, 41.6, 41.7, 41.8, 41.9, 42.0, 42.1, 42.2, 42.3, 42.4, 42.5, 42.6, 42.7, 42.8, 42.9, 43.0, 43.1, 43.2, 43.3, 43.4, 43.5, 43.6, 43.7, 43.8, 43.9, 44.0, 44.1, 44.2, 44.3, 44.4, 44.5, 44.6, 44.7, 44.8, 44.9, 45.0, 45.1, 45.2, 45.3, 45.4, 45.5, 45.6, 45.7, 45.8, 45.9, 46.0, 46.1, 46.2, 46.3, 46.4, 46.5, 46.6, 46.7, 46.8, 46.9, 47.0, 47.1, 47.2, 47.3, 47.4, 47.5, 47.6, 47.7, 47.8, 47.9, 48.0, 48.1, 48.2, 48.3, 48.4, 48.5, 48.6, 48.7, 48.8, 48.9, 49.0, 49.1, 49.2, 49.3, 49.4, 49.5, 49.6, 49.7, 49.8, 49.9, 50.0, 50.1, 50.2, 50.3, 50.4, 50.5, 50.6, 50.7, 50.8, 50.9, 51.0, 51.1, 51.2, 51.3, 51.4, 51.5, 51.6, 51.7, 51.8, 51.9, 52.0, 52.1, 52.2, 52.3, 52.4, 52.5, 52.6, 52.7, 52.8, 52.9, 53.0, 53.1, 53.2, 53.3, 53.4, 53.5, 53.6, 53.7, 53.8, 53.9, 54.0, 54.1, 54.2, 54.3, 54.4, 54.5, 54.6, 54.7, 54.8, 54.9, 55.0, 55.1, 55.2, 55.3, 55.4, 55.5, 55.6, 55.7, 55.8, 55.9, 56.0, 56.1, 56.2, 56.3, 56.4, 56.5, 56.6, 56.7, 56.8, 56.9, 57.0, 57.1, 57.2, 57.3, 57.4, 57.5, 57.6, 57.7, 57.8, 57.9, 58.0, 58.1, 58.2, 58.3, 58.4, 58.5, 58.6, 58.7, 58.8, 58.9, 59.0, 59.1, 59.2, 59.3, 59.4, 59.5, 59.6, 59.7, 59.8, 59.9, 60.0, 60.1, 60.2, 60.3, 60.4, 60.5, 60.6, 60.7, 60.8, 60.9, 61.0, 61.1, 61.2, 61.3, 61.4, 61.5, 61.6, 61.7, 61.8, 61.9, 62.0, 62.1, 62.2, 62.3, 62.4, 62.5, 62.6, 62.7, 62.8, 62.9, 63.0, 63.1, 63.2, 63.3, 63.4, 63.5, 63.6, 63.7, 63.8, 63.9, 64.0, 64.1, 64.2, 64.3, 64.4, 64.5, 64.6, 64.7, 64.8, 64.9, 65.0, 65.1, 65.2, 65.3, 65.4, 65.5, 65.6, 65.7, 65.8, 65.9, 66.0, 66.1, 66.2, 66.3, 66.4, 66.5, 66.6, 66.7, 66.8, 66.9, 67.0, 67.1, 67.2, 67.3, 67.4, 67.5, 67.6, 67.7, 67.8, 67.9, 68.0, 68.1, 68.2, 68.3, 68.4, 68.5, 68.6, 68.7, 68.8, 68.9, 69.0, 69.1, 69.2, 69.3, 69.4, 69.5, 69.6, 69.7, 69.8, 69.9, 70.0, 70.1, 70.2, 70.3, 70.4, 70.5, 70.6, 70.7, 70.8, 70.9, 71.0, 71.1, 71.2, 71.3, 71.4, 71.5, 71.6, 71.7, 71.8, 71.9, 72.0, 72.1, 72.2, 72.3, 72.4, 72.5, 72.6, 72.7, 72.8, 72.9, 73.0, 73.1, 73.2, 73.3, 73.4, 73.5, 73.6, 73.7, 73.8, 73.9, 74.0, 74.1, 74.2, 74.3, 74.4, 74.5, 74.6, 74.7, 74.8, 74.9, 75.0, 75.1, 75.2, 75.3, 75.4, 75.5, 75.6, 75.7, 75.8, 75.9, 76.0, 76.1, 76.2, 76.3, 76.4, 76.5, 76.6, 76.7, 76.8, 76.9, 77.0, 77.1, 77.2, 77.3, 77.4, 77.5, 77.6, 77.7, 77.8, 77.9, 78.0, 78.1, 78.2, 78.3, 78.4, 78.5, 78.6, 78.7, 78.8, 78.9, 79.0, 79.1, 79.2, 79.3, 79.4, 79.5, 79.6, 79.7, 79.8, 79.9, 80.0, 80.1, 80.2, 80.3, 80.4, 80.5, 80.6, 80.7, 80.8, 80.9, 81.0, 81.1, 81.2, 81.3, 81.4, 81.5, 81.6, 81.7, 81.8, 81.9, 82.0, 82.1, 82.2, 82.3, 82.4, 82.5, 82.6, 82.7, 82.8, 82.9, 83.0, 83.1, 83.2, 83.3, 83.4, 83.5, 83.6, 83.7, 83.8, 83.9, 84.0, 84.1, 84.2, 84.3, 84.4, 84.5, 84.6, 84.7, 84.8, 84.9, 85.0, 85.1, 85.2, 85.3, 85.4, 85.5, 85.6, 85.7, 85.8, 85.9, 86.0, 86.1, 86.2, 86.3, 86.4, 86.5, 86.6, 86.7, 86.8, 86.9, 87.0, 87.1, 87.2, 87.3, 87.4, 87.5, 87.6, 87.7, 87.8, 87.9, 88.0, 88.1, 88.2, 88.3, 88.4, 88.5, 88.6, 88.7, 88.8, 88.9, 89.0, 89.1, 89.2, 89.3, 89.4, 89.5, 89.6, 89.7, 89.8, 89.9, 90.0, 90.1, 90.2, 90.3, 90.4, 90.5, 90.6, 90.7, 90.8, 90.9, 91.0, 91.1, 91.2, 91.3, 91.4, 91.5, 91.6, 91.7, 91.8, 91.9, 92.0, 92.1, 92.2, 92.3, 92.4, 92.5, 92.6, 92.7, 92.8, 92.9, 93.0, 93.1, 93.2, 93.3, 93.4, 93.5, 93.6, 93.7, 93.8, 93.9, 94.0, 94.1, 94.2, 94.3, 94.4, 94.5, 94.6, 94.7, 94.8, 94.9, 95.0, 95.1, 95.2, 95.3, 95.4, 95.5, 95.6, 95.7, 95.8, 95.9, 96.0, 96.1, 96.2, 96.3, 96.4, 96.5, 96.6, 96.7



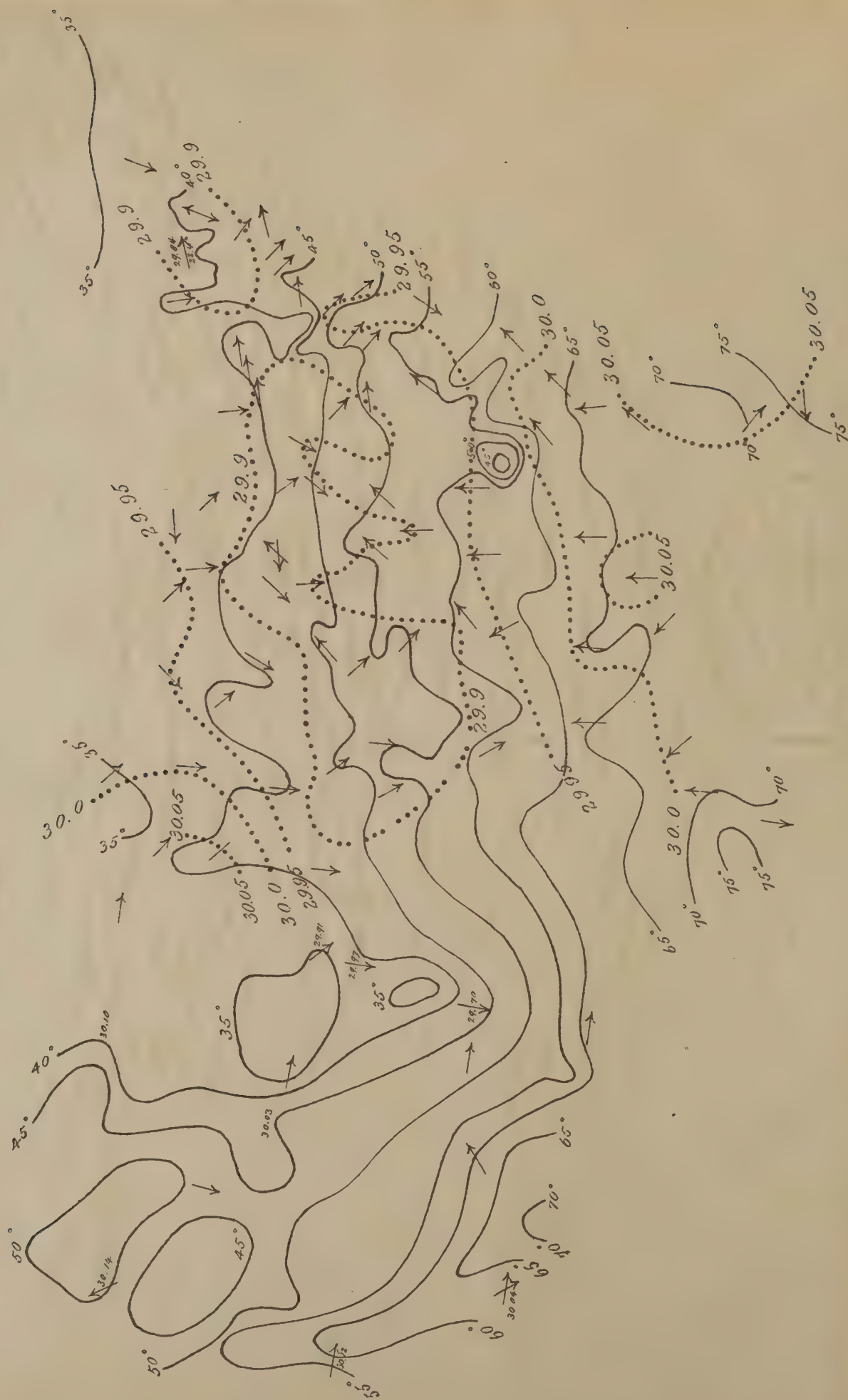
This is a hand-drawn contour map of a mountainous region. The map features several contour lines representing different elevations, with labels such as 10°, 15°, 20°, 25°, 30°, 35°, 40°, 45°, 50°, 55°, 60°, and 65°. A prominent stream or river is depicted with a dashed line and arrows indicating its flow direction, generally from the upper left towards the lower right. The map is annotated with numerous numerical values, including 29.95, 30.0, 30.05, 30.1, 30.16, 30.18, 30.2, 30.25, 30.3, 30.35, 30.4, 30.45, 30.5, 30.55, 30.6, 30.65, 30.7, 30.75, 30.8, 30.85, 30.9, 30.95, 31.0, 31.05, 31.1, 31.15, 31.2, 31.25, 31.3, 31.35, 31.4, 31.45, 31.5, 31.55, 31.6, 31.65, 31.7, 31.75, 31.8, 31.85, 31.9, 31.95, 32.0, 32.05, 32.1, 32.15, 32.2, 32.25, 32.3, 32.35, 32.4, 32.45, 32.5, 32.55, 32.6, 32.65, 32.7, 32.75, 32.8, 32.85, 32.9, 32.95, 33.0, 33.05, 33.1, 33.15, 33.2, 33.25, 33.3, 33.35, 33.4, 33.45, 33.5, 33.55, 33.6, 33.65, 33.7, 33.75, 33.8, 33.85, 33.9, 33.95, 34.0, 34.05, 34.1, 34.15, 34.2, 34.25, 34.3, 34.35, 34.4, 34.45, 34.5, 34.55, 34.6, 34.65, 34.7, 34.75, 34.8, 34.85, 34.9, 34.95, 35.0, 35.05, 35.1, 35.15, 35.2, 35.25, 35.3, 35.35, 35.4, 35.45, 35.5, 35.55, 35.6, 35.65, 35.7, 35.75, 35.8, 35.85, 35.9, 35.95, 36.0, 36.05, 36.1, 36.15, 36.2, 36.25, 36.3, 36.35, 36.4, 36.45, 36.5, 36.55, 36.6, 36.65, 36.7, 36.75, 36.8, 36.85, 36.9, 36.95, 37.0, 37.05, 37.1, 37.15, 37.2, 37.25, 37.3, 37.35, 37.4, 37.45, 37.5, 37.55, 37.6, 37.65, 37.7, 37.75, 37.8, 37.85, 37.9, 37.95, 38.0, 38.05, 38.1, 38.15, 38.2, 38.25, 38.3, 38.35, 38.4, 38.45, 38.5, 38.55, 38.6, 38.65, 38.7, 38.75, 38.8, 38.85, 38.9, 38.95, 39.0, 39.05, 39.1, 39.15, 39.2, 39.25, 39.3, 39.35, 39.4, 39.45, 39.5, 39.55, 39.6, 39.65, 39.7, 39.75, 39.8, 39.85, 39.9, 39.95, 40.0, 40.05, 40.1, 40.15, 40.2, 40.25, 40.3, 40.35, 40.4, 40.45, 40.5, 40.55, 40.6, 40.65, 40.7, 40.75, 40.8, 40.85, 40.9, 40.95, 41.0, 41.05, 41.1, 41.15, 41.2, 41.25, 41.3, 41.35, 41.4, 41.45, 41.5, 41.55, 41.6, 41.65, 41.7, 41.75, 41.8, 41.85, 41.9, 41.95, 42.0, 42.05, 42.1, 42.15, 42.2, 42.25, 42.3, 42.35, 42.4, 42.45, 42.5, 42.55, 42.6, 42.65, 42.7, 42.75, 42.8, 42.85, 42.9, 42.95, 43.0, 43.05, 43.1, 43.15, 43.2, 43.25, 43.3, 43.35, 43.4, 43.45, 43.5, 43.55, 43.6, 43.65, 43.7, 43.75, 43.8, 43.85, 43.9, 43.95, 44.0, 44.05, 44.1, 44.15, 44.2, 44.25, 44.3, 44.35, 44.4, 44.45, 44.5, 44.55, 44.6, 44.65, 44.7, 44.75, 44.8, 44.85, 44.9, 44.95, 45.0, 45.05, 45.1, 45.15, 45.2, 45.25, 45.3, 45.35, 45.4, 45.45, 45.5, 45.55, 45.6, 45.65, 45.7, 45.75, 45.8, 45.85, 45.9, 45.95, 46.0, 46.05, 46.1, 46.15, 46.2, 46.25, 46.3, 46.35, 46.4, 46.45, 46.5, 46.55, 46.6, 46.65, 46.7, 46.75, 46.8, 46.85, 46.9, 46.95, 47.0, 47.05, 47.1, 47.15, 47.2, 47.25, 47.3, 47.35, 47.4, 47.45, 47.5, 47.55, 47.6, 47.65, 47.7, 47.75, 47.8, 47.85, 47.9, 47.95, 48.0, 48.05, 48.1, 48.15, 48.2, 48.25, 48.3, 48.35, 48.4, 48.45, 48.5, 48.55, 48.6, 48.65, 48.7, 48.75, 48.8, 48.85, 48.9, 48.95, 49.0, 49.05, 49.1, 49.15, 49.2, 49.25, 49.3, 49.35, 49.4, 49.45, 49.5, 49.55, 49.6, 49.65, 49.7, 49.75, 49.8, 49.85, 49.9, 49.95, 50.0, 50.05, 50.1, 50.15, 50.2, 50.25, 50.3, 50.35, 50.4, 50.45, 50.5, 50.55, 50.6, 50.65, 50.7, 50.75, 50.8, 50.85, 50.9, 50.95, 51.0, 51.05, 51.1, 51.15, 51.2, 51.25, 51.3, 51.35, 51.4, 51.45, 51.5, 51.55, 51.6, 51.65, 51.7, 51.75, 51.8, 51.85, 51.9, 51.95, 52.0, 52.05, 52.1, 52.15, 52.2, 52.25, 52.3, 52.35, 52.4, 52.45, 52.5, 52.55, 52.6, 52.65, 52.7, 52.75, 52.8, 52.85, 52.9, 52.95, 53.0, 53.05, 53.1, 53.15, 53.2, 53.25, 53.3, 53.35, 53.4, 53.45, 53.5, 53.55, 53.6, 53.65, 53.7, 53.75, 53.8, 53.85, 53.9, 53.95, 54.0, 54.05, 54.1, 54.15, 54.2, 54.25, 54.3, 54.35, 54.4, 54.45, 54.5, 54.55, 54.6, 54.65, 54.7, 54.75, 54.8, 54.85, 54.9, 54.95, 55.0, 55.05, 55.1, 55.15, 55.2, 55.25, 55.3, 55.35, 55.4, 55.45, 55.5, 55.55, 55.6, 55.65, 55.7, 55.75, 55.8, 55.85, 55.9, 55.95, 56.0, 56.05, 56.1, 56.15, 56.2, 56.25, 56.3, 56.35, 56.4, 56.45, 56.5, 56.55, 56.6, 56.65, 56.7, 56.75, 56.8, 56.85, 56.9, 56.95, 57.0, 57.05, 57.1, 57.15, 57.2, 57.25, 57.3, 57.35, 57.4, 57.45, 57.5, 57.55, 57.6, 57.65, 57.7, 57.75, 57.8, 57.85, 57.9, 57.95, 58.0, 58.05, 58.1, 58.15, 58.2, 58.25, 58.3, 58.35, 58.4, 58.45, 58.5, 58.55, 58.6, 58.65, 58.7, 58.75, 58.8, 58.85, 58.9, 58.95, 59.0, 59.05, 59.1, 59.15, 59.2, 59.25, 59.3, 59.35, 59.4, 59.45, 59.5, 59.55, 59.6, 59.65, 59.7, 59.75, 59.8, 59.85, 59.9, 59.95, 60.0, 60.05, 60.1, 60.15, 60.2, 60.25

Isobars, Isotherms, and Winds, March, 1873.

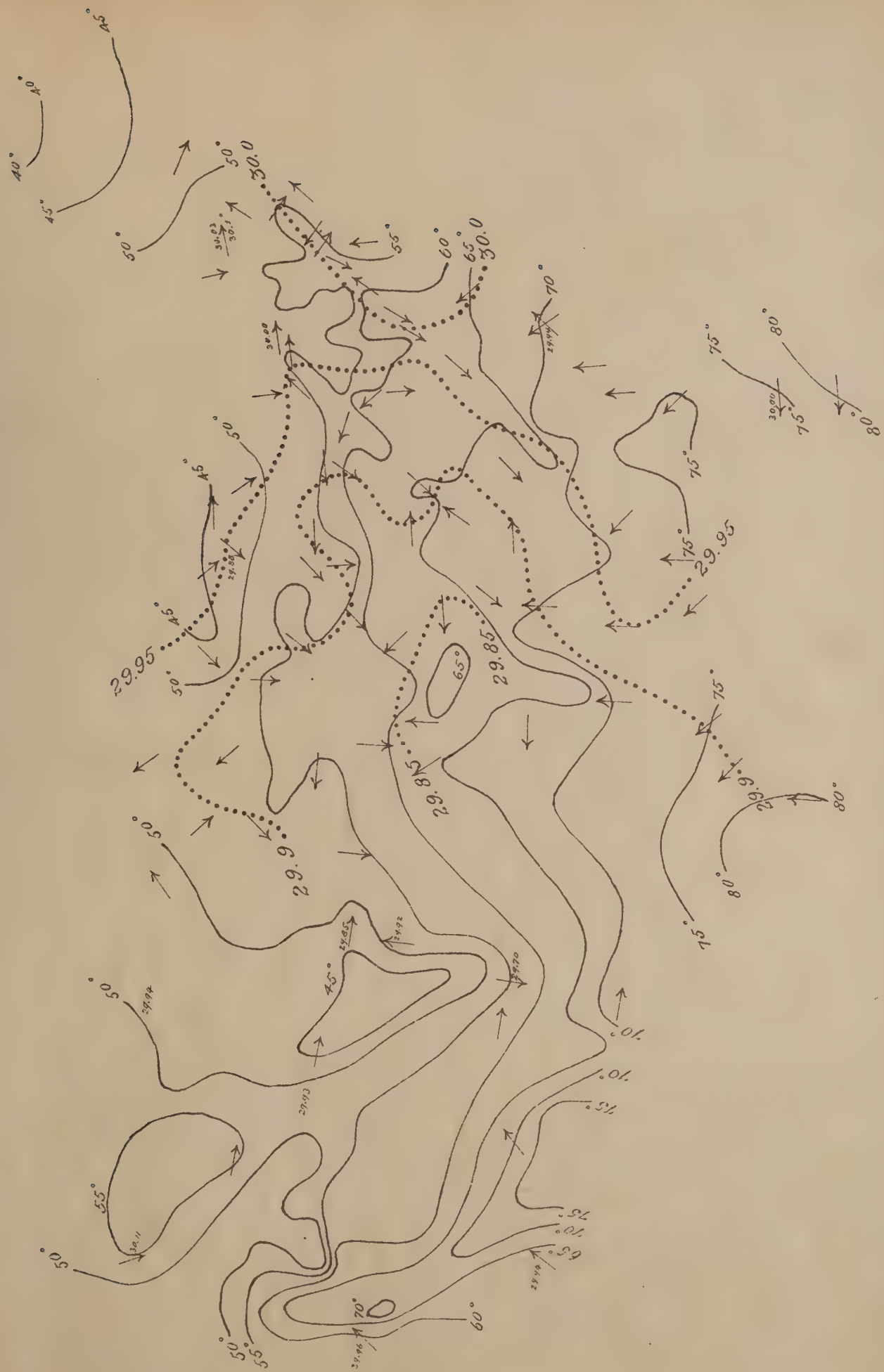




## Isobars, Isotherms, and Winds. April, 1873.

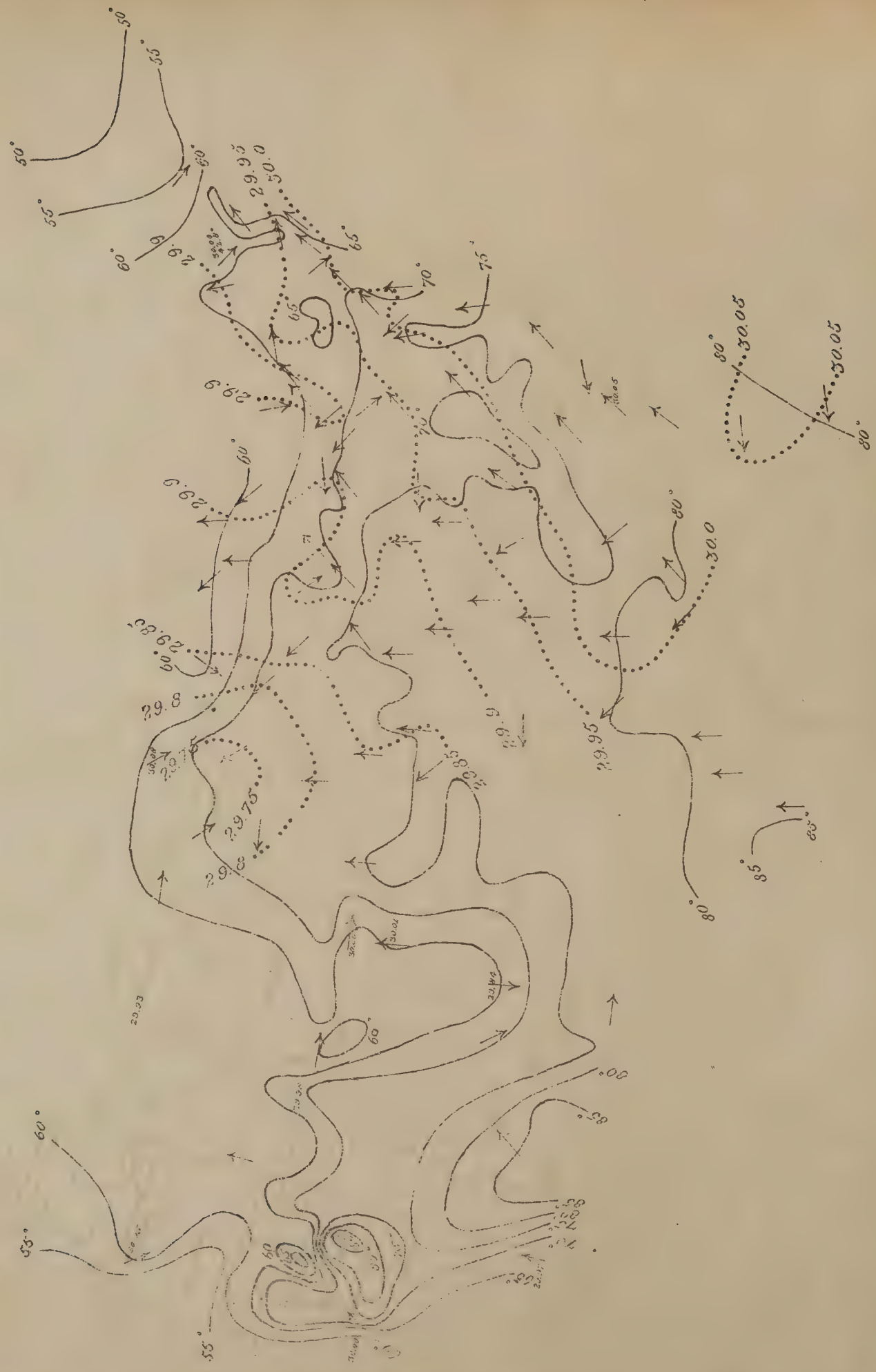


Isobars, Isotherms, and Winds. May, 1873.

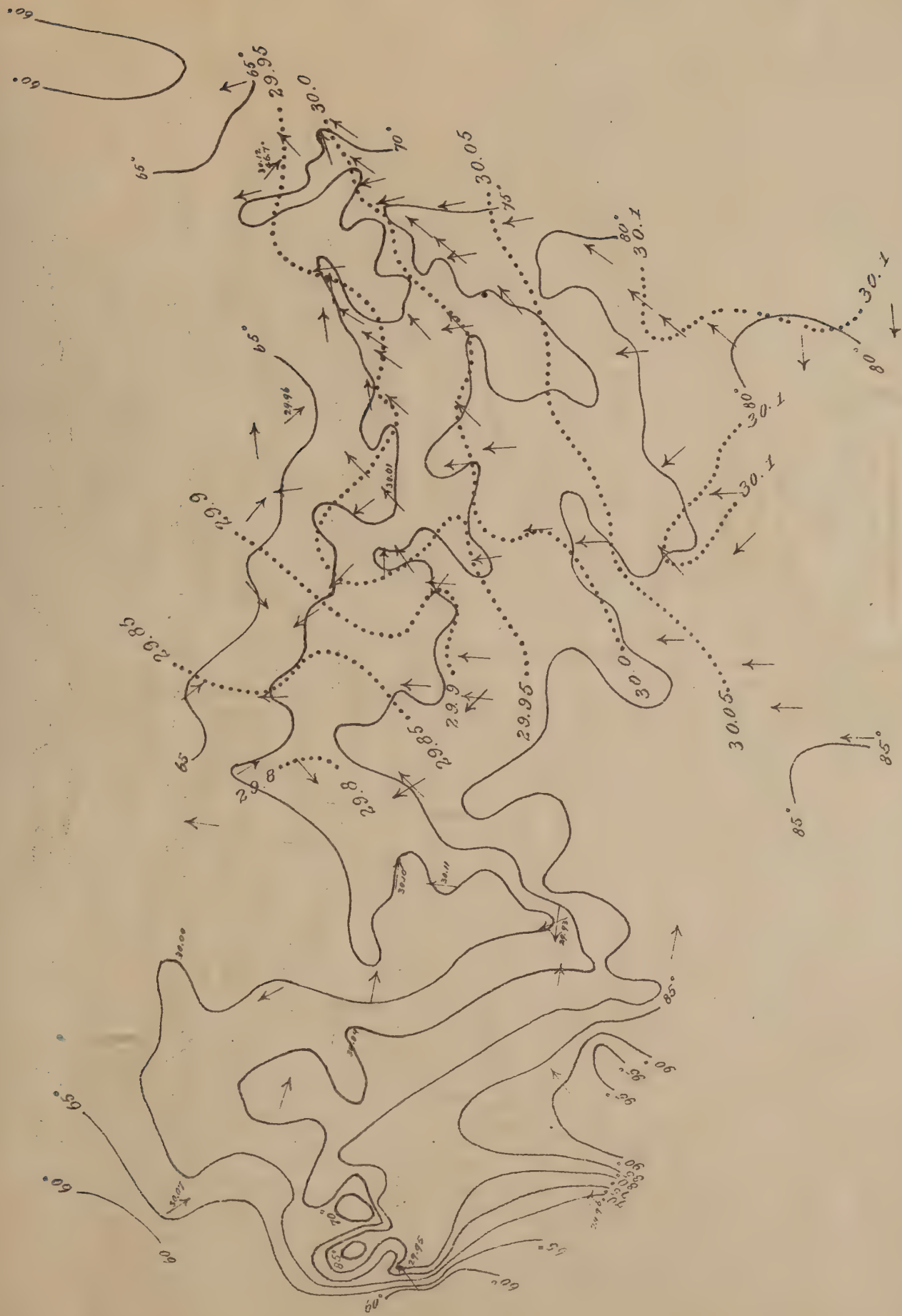




Isobars, Isotherms, and Winds, June, 1873.

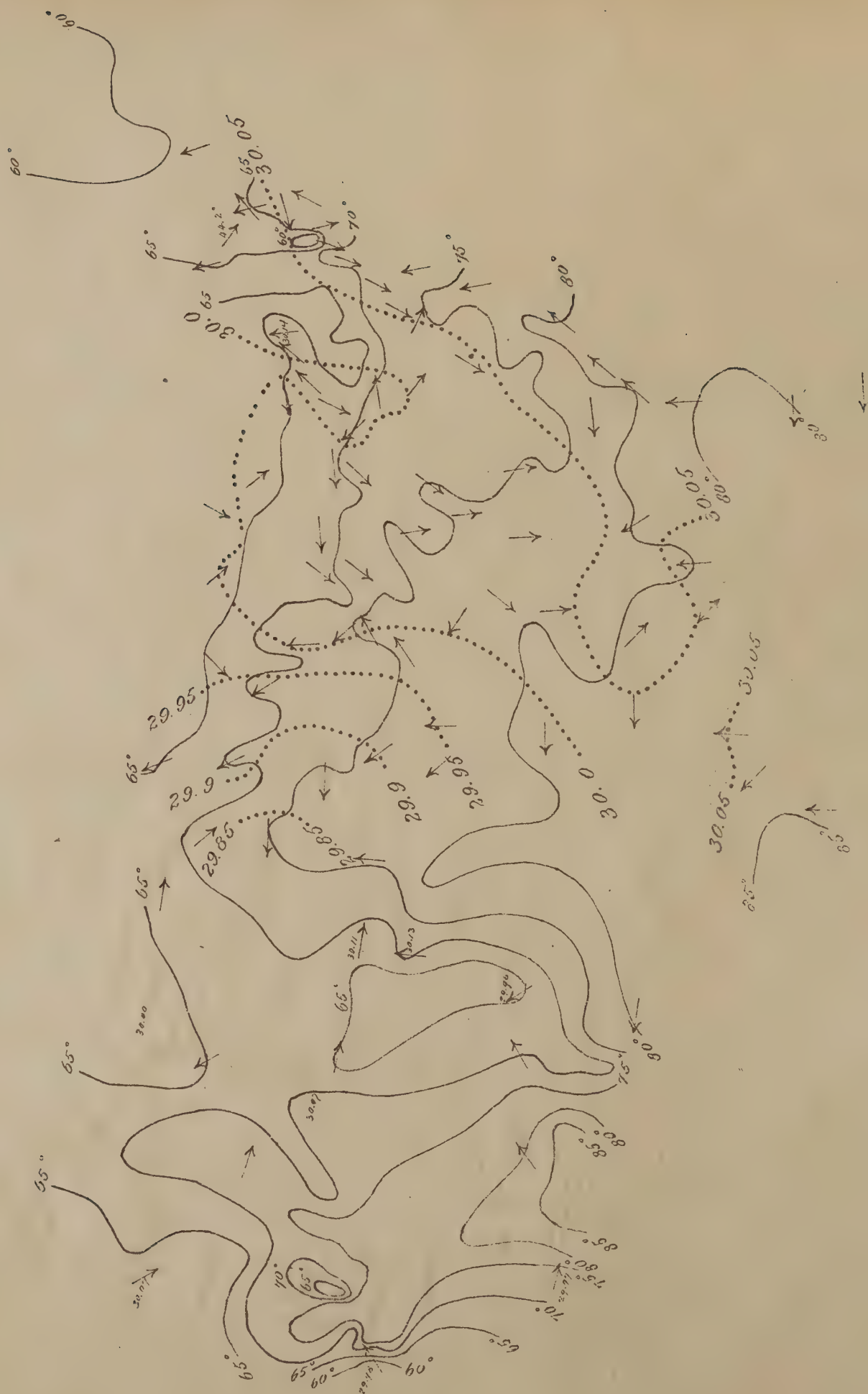


Isobars, Isotherms, and Winds, July, 1873.

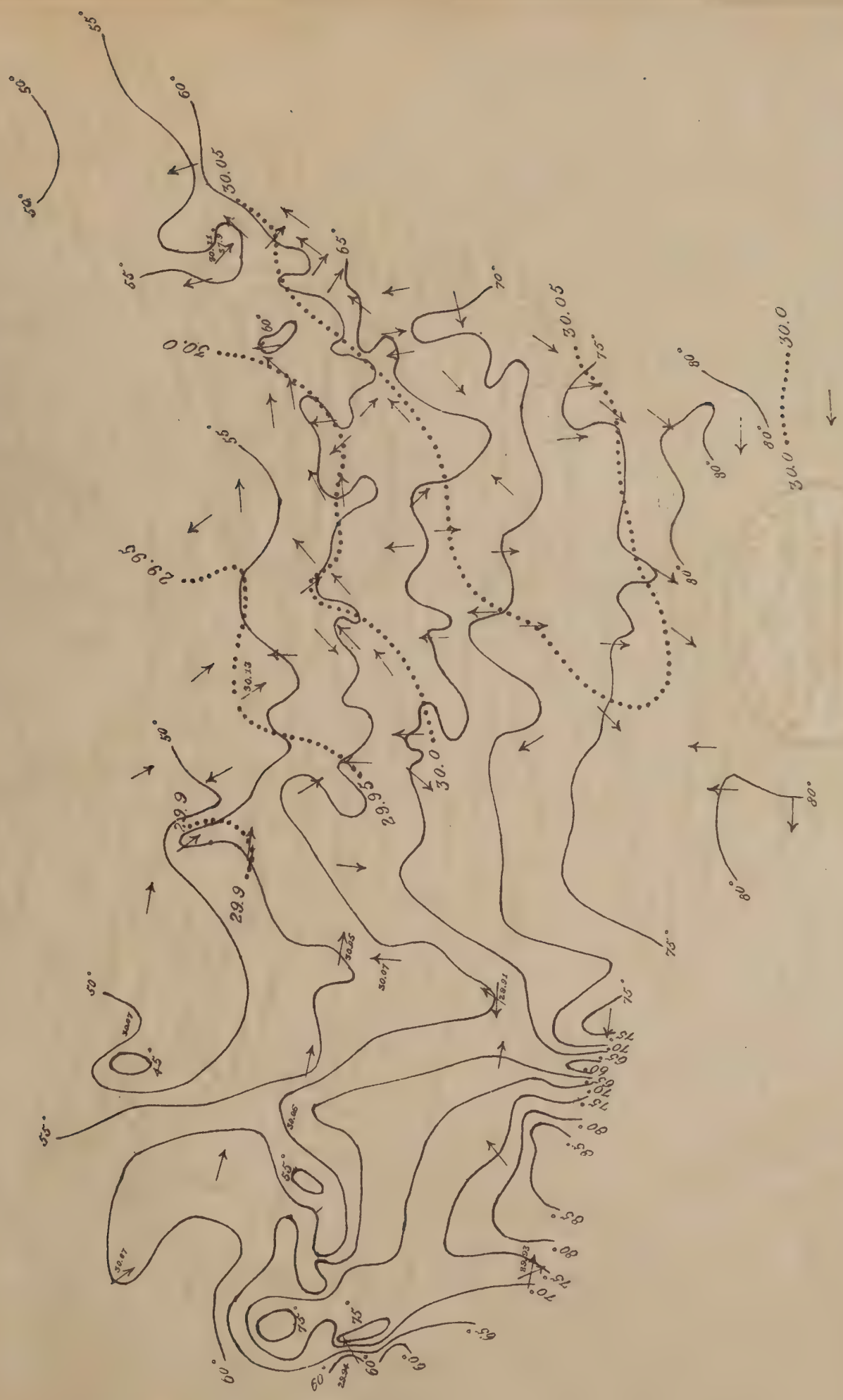




Isobars, Isotherms, and Winds, August, 1873.

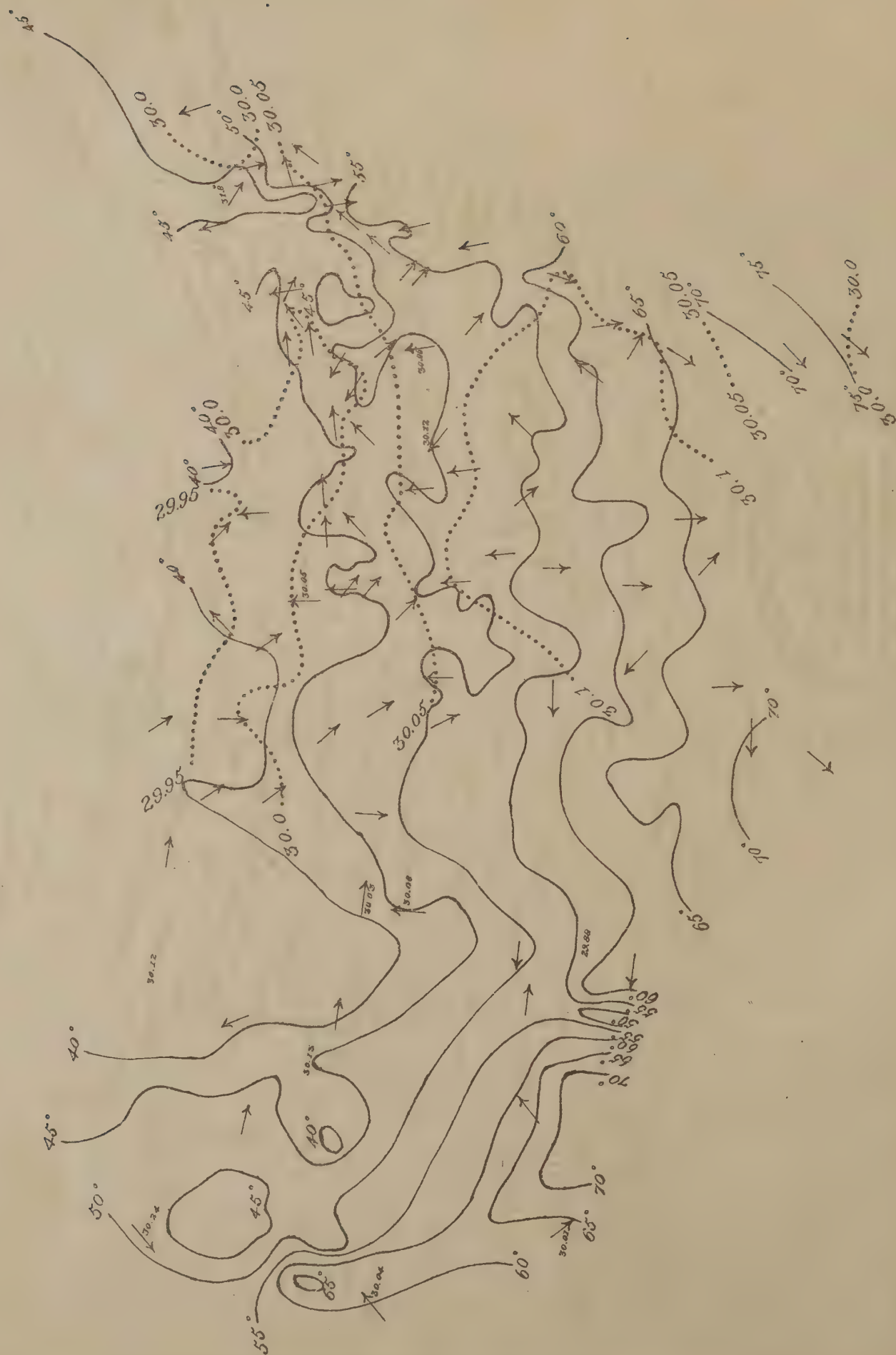


Isobars, Isotherms, and Winds, September, 1873.

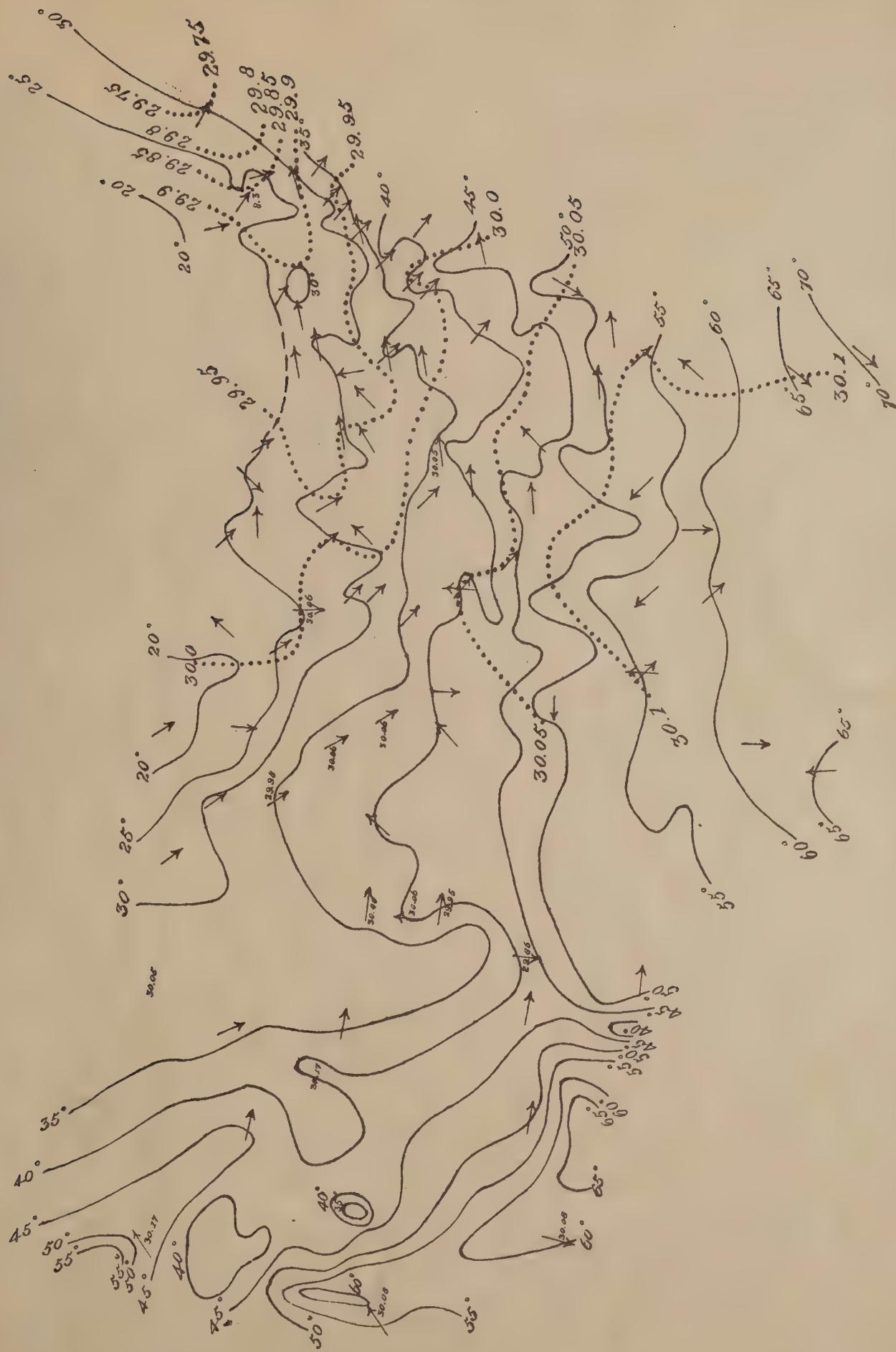




Isobars, Isotherms and Winds, October 1873.



Isobars, Isotherms, and Winds. November, 1873.





[illegible]





























































































B.P.L. Bindery,  
JAN 11 1992



